

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: September 13, 2004, 13:00:46 ; Search time 10252 Seconds
(without alignments)
11622.123 Million cell updates/sec
Title: US-10-017-081A-215
Perfect score: 2749
Sequence: 1 cttccacggtgtccagccgcccc.....ctgcataaaaaaaaaa 2749

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 3470272 seqs, 21671516995 residues

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1500 summaries

Database :

GenEmbl.*

1: gb.ba.*

2: gb.htg.*

3: gb.in.*

4: gb.om.*

5: gb.ov.*

6: gb.pat.*

7: gb.ph.*

8: gb.pl.*

9: gb.pr.*

10: gb.ro.*

11: gb.sts.*

12: gb.sy.*

13: gb.un.*

14: gb.vi.*

15: em.ba.*

16: em.fun.*

17: em.hum.*

18: em.in.*

19: em.mu.*

20: em.om.*

21: em.or.*

22: em.ov.*

23: em.pat.*

24: em.ph.*

25: em.pl.*

26: em.ro.*

27: em.sts.*

28: em.un.*

29: em.vi.*

30: em.htg.hum.*

31: em.htg.inv.*

32: em.htg.other.*

33: em.htg.mus.*

34: em.htg.pln.*

35: em.htg.rod.*

36: em.htg.man.*

37: em.htg.vrt.*

38: em.sy.*

39: em.htgo.hum.*

40: em.htgo.mus.*

41: em.htgo.other.*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2747	99.9	2749	6	AR252737 Sequence
2	2747	99.9	2749	6	AX403629 Sequence
3	2747	99.9	2749	6	AX454474 Sequence
4	2747	99.9	2749	6	AX464252 Sequence
5	2747	99.9	2749	6	AX490952 Sequence
6	2747	99.9	2749	9	AY358364 Homo sapi
7	2587.6	94.1	2771	9	BC025395 Homo sapi
8	1679.6	61.1	1987	6	BD242876 Secreted
9	1671.4	60.8	141704	9	AC007993 Homo sapi
10	1650.6	60.0	196421	2	AC078837 Homo sapi
11	694.4	25.3	1111	6	AX817149 Sequence
12	394.4	14.3	942	6	AX923505 Sequence
13	394.4	14.3	942	9	AF427620 Homo sapi
14	394.4	14.3	993	6	AX923504 Sequence
15	394.4	14.3	993	9	AF427619 Homo sapi
16	345.6	12.6	19577	9	AC015937 Homo sapi
17	237.4	8.6	40157	2	AC068215 Homo sapi
18	230.4	8.4	864	10	AY457055 Mus muscu
19	229.4	8.3	197110	9	AC104306 Homo sapi
20	228.4	8.3	108907	9	AL135911 Human DNA
21	227.6	8.3	100000	9	AF000502 Homo sapi
22	227.6	8.3	153464	9	AL844853 Human DNA
23	227.6	8.3	178460	2	AL139040 Homo sapi
24	227.6	8.3	179894	9	AL662834 Human DNA
25	227.6	8.3	180283	9	AF134726 Homo sapi
26	227.6	8.3	180559	9	AL645922 Human DNA
27	227.6	8.3	250762	2	AL662840 Homo sapi
28	227.2	8.3	137001	9	AP001005 Homo sapi
29	226.6	8.2	118968	9	HS796F18 Human DNA
30	226.2	8.2	220206	2	AC140726 Homo sapi
31	224.8	8.2	147530	9	AC008766 Homo sapi
32	224.8	8.2	166204	2	AC026763 Homo sapi
33	224.6	8.2	108803	9	HS550H1 Human DNA
34	224.4	8.2	170847	2	AL357135 Homo sapi
35	224.4	8.2	176282	2	AC068507 Homo sapi
36	224.4	8.2	198295	9	AC105129 Homo sapi
37	223.8	8.1	185311	9	AL355586 Human DNA
38	223.2	8.1	182267	2	AC021128 Homo sapi
39	222.8	8.1	95745	9	AL359510 Human DNA
40	222.4	8.1	131398	9	HS445C9 Human DNA
41	222.2	8.1	120099	9	AC011449 Homo sapi
42	222	8.1	110000	2	AL831785 2 of
43	222	8.1	212382	2	AC010936 Homo sapi
44	221.8	8.1	182540	2	AC016916 Homo sapi
45	221.8	8.1	189579	9	AL354733 Human DNA
46	221.8	8.1	196772	9	AC087392 Homo sapi
47	221.6	8.1	136515	9	AL499609 Human DNA
48	221.6	8.1	145435	2	AC026685 Homo sapi
49	221.6	8.1	177654	2	AC025988 Homo sapi
50	221	8.0	129316	9	AC130457 Homo sapi
51	221	8.0	169888	2	AC140007 Homo sapi
52	221	8.0	199287	2	AC068659 Homo sapi
53	220.8	8.0	77027	9	AL161792 Human DNA
54	220.8	8.0	156592	9	AL135786 Human DNA
55	220.4	8.0	131611	9	AC005099 Homo sapi
56	220.4	8.0	163074	9	AC080013 Homo sapi
57	220.4	8.0	187987	2	AC009639 Homo sapi
58	220.4	8.0	192780	9	AL162723 Human DNA
59	220.2	8.0	39531	9	AF024534 Homo sapi
60	220.2	8.0	84912	9	AF024533 Homo sapi
61	220.2	8.0	129586	9	AC005086 Homo sapi
62	220.2	8.0	199288	9	AC090950 Homo sapi
63	220	8.0	100521	9	AC119397 Homo sapi
64	220	8.0	142667	9	AC125387 Homo sapi
65	219.8	8.0	104835	9	AF130418 Homo sapi

C 66	219.8	8.0	163022	2	AC011802	AC011802 Homo sapi	139	217.6	7.9	177130	9	AC018801	AC018801 Homo sapi
C 67	219.8	8.0	177020	2	AC011326	AC011326 Homo sapi	C 140	217.6	7.9	182408	9	HSA535K18	AL078638 Human DNA
C 68	219.8	8.0	212275	2	AC012076	AC012076 Homo sapi	141	217.6	7.9	184760	2	AC072024	AC072024 Homo sapi
C 69	219.8	8.0	340000	9	AP001669	AP001669 Homo sapi	142	217.6	7.9	191356	9	AC005041	AC005041 Homo sapi
70	219.6	8.0	52468	2	AC022628	AC022628 Homo sapi	C 143	217.6	7.9	195076	9	AL391357	AL391357 Human DNA
71	219.6	8.0	186563	9	AC104452	AC104452 Homo sapi	C 144	217.6	7.9	202521	2	AC146953	AC146953 Pongo pyg
72	219.6	8.0	186925	2	AC087503	AC087503 Homo sapi	C 145	217.6	7.9	204922	2	AL670274	AL670274 Homo sapi
73	219.4	8.0	94516	9	AC112126	AC112126 Homo sapi	146	217.4	7.9	110000	2	3	Continuation (4 of
74	219.4	8.0	97818	2	AC011259	AC011259 Homo sapi	C 147	217.4	7.9	136312	9	HSA657D16	AL050343 Human DNA
C 75	219.4	8.0	135820	9	AL513497	AL513497 Human DNA	C 148	217.4	7.9	157857	9	AL353742	AL353742 Human DNA
76	219.4	8.0	156795	9	AC105267	AC105267 Homo sapi	149	217.2	7.9	9671	9	AL672126	AL672126 Human DNA
C 77	219.4	8.0	158987	9	AC108713	AC108713 Homo sapi	150	217.2	7.9	148251	9	AC083867	AC083867 Homo sapi
C 78	219.4	8.0	168863	2	AC146167	AC146167 Pan trogl	151	217.2	7.9	149374	2	AC053520	AC053520 Homo sapi
79	219.4	8.0	171181	9	AC104190	AC104190 Homo sapi	C 152	217.2	7.9	174034	9	AC020908	AC020908 Homo sapi
C 80	219.4	8.0	186959	9	AY191612	AY191612 Pan trogl	153	217.2	7.9	175754	9	AC084018	AC084018 Homo sapi
C 81	219.4	8.0	215033	2	AL358973	AL358973 Homo sapi	C 154	217.2	7.9	200792	2	AC130782	AC130782 Pan trogl
82	219.2	8.0	137432	9	AC073613	AC073613 Homo sapi	C 155	217.2	7.9	220173	9	AC004750	AC004750 Homo sapi
C 83	219.2	8.0	176048	9	AC025881	AC025881 Homo sapi	C 156	217	7.9	33341	9	AC004750	AC004750 Homo sapi
84	219.2	8.0	189430	2	AC011610	AC011610 Homo sapi	C 157	217	7.9	39978	9	AC005568	AC005568 Homo sapi
C 85	219.2	8.0	195142	9	AC004554	AC004554 Homo sapi	C 158	217	7.9	145481	9	AL356862	AL356862 Human DNA
C 86	219	8.0	94508	9	AC004086	AC004086 Homo sapi	159	217	7.9	175022	9	AC009171	AC009171 Homo sapi
87	219	8.0	119951	2	AC025267	AC025267 Homo sapi	160	217	7.9	176085	2	AL590309	AL590309 Homo sapi
C 88	218.8	8.0	160084	9	AC023395	AC023395 Homo sapi	C 161	217	7.9	179538	2	AC024740	AC024740 Homo sapi
C 89	218.8	8.0	170311	9	AC021701	AC021701 Homo sapi	162	216.8	7.9	23434	6	AX705309	AX705309 Sequence
90	218.8	8.0	183946	2	AC009164	AC009164 Homo sapi	163	216.8	7.9	110000	2	AL390202	AL390202 04
C 91	218.8	8.0	198949	9	AC010287	AC010287 Homo sapi	C 164	216.8	7.9	149188	9	AC114781	AC114781 Homo sapi
C 92	218.6	8.0	76721	9	AL591024	AL591024 Human DNA	C 165	216.8	7.9	149397	2	AC004840	AC004840 Homo sapi
C 93	218.6	8.0	131279	2	AC016441	AC016441 Homo sapi	C 166	216.8	7.9	153825	2	AC016358	AC016358 Homo sapi
94	218.6	8.0	132823	9	AL138795	AL138795 Human DNA	C 167	216.8	7.9	155567	9	HS1125A11	AL034549 Human DNA
C 95	218.6	8.0	159707	2	AL365403	AL365403 Homo sapi	C 168	216.8	7.9	157198	9	AC024082	AC024082 Human Chr
96	218.6	8.0	162978	9	AC021070	AC021070 Homo sapi	C 169	216.8	7.9	164077	2	AC024398	AC024398 Homo sapi
C 97	218.6	8.0	210115	9	AL442127	AL442127 Human DNA	C 170	216.8	7.9	195995	2	AC079800	AC079800 Homo sapi
C 98	218.4	7.9	59588	6	AX647687	AX647687 Sequence	C 171	216.8	7.9	199368	2	AC099523	AC099523 Homo sapi
C 99	218.4	7.9	168247	9	AC005014	AC005014 Homo sapi	C 172	216.8	7.9	208989	9	AC027124	AC027124 Homo sapi
C 100	218.4	7.9	170529	9	AB003151	AB003151 Homo sapi	C 173	216.6	7.9	57316	9	AL353796	AL353796 Human DNA
C 101	218.4	7.9	171703	9	AP000688	AP000688 Homo sapi	C 174	216.6	7.9	173086	2	AL591705	AL591705 Homo sapi
102	218.4	7.9	182341	2	AC073337	AC073337 Homo sapi	C 175	216.6	7.9	175610	9	AC073176	AC073176 Homo sapi
C 103	218.4	7.9	185980	9	AC090610	AC090610 Homo sapi	C 176	216.6	7.9	194067	2	AC146067	AC146067 Pan trogl
C 104	218.4	7.9	190506	2	AC088990	AC088990 Homo sapi	C 177	216.6	7.9	198410	2	AP000831	AP000831 Homo sapi
C 105	218.4	7.9	193553	9	AC097634	AC097634 Homo sapi	C 178	216.6	7.9	199321	9	AP000941	AP000941 Homo sapi
C 106	218.4	7.9	220579	9	AC130456	AC130456 Homo sapi	C 179	216.4	7.9	110000	9	AF438327	AF438327 Homo sapi
C 107	218.4	7.9	220633	9	HU913321	HU913321 Human Chrom	180	216.4	7.9	117338	9	HS173D1	AL031984 Human DNA
C 108	218.4	7.9	340000	9	AP001724	AP001724 Homo sapi	181	216.4	7.9	161903	2	AC021996	AC021996 Homo sapi
C 109	218.2	7.9	492008	9	AL390298	AL390298 Human DNA	C 182	216.4	7.9	170763	9	AC009196	AC009196 Homo sapi
110	218.2	7.9	72955	2	AL354832	Continuation (4 of	C 183	216.4	7.9	172660	9	AC136968	AC136968 Pan trogl
111	218.2	7.9	171902	2	AP000846	AP000846 Homo sapi	C 184	216.4	7.9	179206	9	CNS01D56	AL121656 BAC seque
112	218.2	7.9	179617	2	AL359033	AL359033 Homo sapi	185	216.4	7.9	181773	2	AL365365	AL365365 Homo sapi
113	218.2	7.9	186868	2	AC023639	AC023639 Homo sapi	C 186	216.4	7.9	184157	2	AC073438	AC073438 Homo sapi
114	218.2	7.9	205638	9	AC090018	AC090018 Homo sapi	187	216.4	7.9	198490	2	AC022983	AC022983 Homo sapi
C 115	218.2	7.9	280278	2	AL390201	AL390201 Homo sapi	188	216.2	7.9	42104	9	AY206865	AY206865 Homo sapi
C 116	218	7.9	160915	2	AP001084	AP001084 Homo sapi	C 189	216.2	7.9	45046	9	AL160000	AL160000 Human DNA
C 117	218	7.9	176697	2	AC021170	AC021170 Homo sapi	C 190	216.2	7.9	60153	9	AC025574	AC025574 Homo sapi
118	218	7.9	185067	9	AC022382	AC022382 Homo sapi	191	216.2	7.9	108205	9	AL138758	AL138758 Human DNA
119	218	7.9	192391	9	AC010768	AC010768 Homo sapi	192	216.2	7.9	109395	2	AC013742	AC013742 Homo sapi
120	218	7.9	200618	9	AC090961	AC090961 Homo sapi	C 193	216.2	7.9	110000	6	AR397408	AR397408 Sequence
C 121	218	7.9	209262	2	AC021091	AC021091 Homo sapi	194	216.2	7.9	119737	9	HS404G5	AL035695 Human DNA
C 122	218	7.9	216249	9	AC099518	AC099518 Homo sapi	C 195	216.2	7.9	131708	9	AL354710	AL354710 Human DNA
123	218	7.9	169111	9	AC118809	AC118809 Homo sapi	C 196	216.2	7.9	137843	9	AC138972	AC138972 Homo sapi
124	217.8	7.9	169339	2	AC110008	AC110008 Homo sapi	C 197	216.2	7.9	157267	9	AC07859	AC07859 Homo sapi
125	217.8	7.9	176552	9	AC106820	AC106820 Homo sapi	C 198	216.2	7.9	157963	9	AP002986	AP002986 Homo sapi
126	217.8	7.9	178010	9	AC098479	AC098479 Homo sapi	199	216.2	7.9	161264	9	AC007011	AC007011 Homo sapi
127	217.6	7.9	205268	2	AL146518	AL146518 Homo sapi	200	216.2	7.9	162475	9	AC146163	AC146163 Pan trogl
128	217.6	7.9	56804	9	HS77N19	298886 Human DNA s	C 201	216.2	7.9	170203	2	AL14002	AL14002 Homo sapi
C 129	217.6	7.9	126141	2	AL356300	AL356300 Homo sapi	C 202	216.2	7.9	181112	2	AL360012	AL360012 Homo sapi
C 130	217.6	7.9	146565	2	AL355542	AL355542 Homo sapi	C 203	216.2	7.9	194624	9	AC008742	AC008742 Homo sapi
131	217.6	7.9	147543	9	AC068189	AC068189 Homo sapi	C 204	216.2	7.9	194880	2	AC091929	AC091929 Homo sapi
132	217.6	7.9	147875	9	AC067982	AC067982 Homo sapi	205	216.2	7.9	202566	9	AC022031	AC022031 Homo sapi
133	217.6	7.9	161590	9	AC016494	AC016494 Homo sapi	C 206	216.2	7.9	349980	6	AX232503	AX232503 Sequence
C 134	217.6	7.9	162418	2	AC137066	AC137066 Pan trogl	C 207	216.2	7.9	349980	6	AX453703	AX453703 Sequence
C 135	217.6	7.9	163801	2	AC025224	AC025224 Homo sapi	208	216	7.9	3240	9	AX125312	AX125312 Homo sapi
C 136	217.6	7.9	164766	2	AC018350	AC018350 Homo sapi	209	216	7.9	37650	9	HSU131B10	273417 Human DNA s
137	217.6	7.9	167127	9	AC097641	AC097641 Homo sapi	C 210	216	7.9	124497	9	AC120053	AC120053 Homo sapi
138	217.6	7.9	169566	9	AC026470	AC026470 Homo sapi	211	216	7.9	129010	9	AL159168	AL159168 Human DNA

c 212	c 216	7.9 167344	9	CNS01DSB	AL121769 Human chr	215.2	7.8 167386	2	AL159993	AL159993 Homo sapi
c 213	216	7.9 169891	9	AC020907	AC020907 Homo sapi	215.2	7.8 171133	9	AC103846	AC103846 Homo sapi
c 214	216	7.9 174424	6	AX335950	AX335950 Sequence	287	7.8 173738	2	AC147314	AC147314 Pan trogl
c 215	216	7.9 175127	9	AC016048	AC016048 Homo sapi	c 288	7.8 177076	9	AP000487	AP000487 Homo sapi
c 216	216	7.9 177187	9	AC133961	AC133961 Homo sapi	289	7.8 177626	9	AC090005	AC090005 Homo sapi
c 217	216	7.9 181343	9	U52112	U52112 Homo sapien	290	7.8 181394	9	AC090951	AC090951 Homo sapi
c 218	216	7.9 182799	2	AC073526	AC073526 Homo sapi	c 291	7.8 183670	9	AC086597	AC086597 Homo sapi
c 219	216	7.9 187833	9	AL513303	AL513303 Human DNA	c 292	7.8 188270	9	AC104393	AC104393 Homo sapi
c 220	216	7.9 215313	9	AC100791	AC100791 Homo sapi	c 293	7.8 191090	2	AP000927	AP000927 Homo sapi
c 221	216	7.9 217409	9	AC123901	AC123901 Homo sapi	c 294	7.8 191780	2	AC146696	AC146696 Pan trogl
c 222	215.8	7.9 17590	6	BD250946	BD250946 Nucleic a	c 295	7.8 197224	2	CNS01DUM	AL133279 Human chr
c 223	215.8	7.9 33602	9	U73643	U73643 Human Chrom	296	7.8 201400	2	AL929539	AL929539 Homo sapi
c 224	215.8	7.9 43467	9	AC000086	AC000086 Homo sapi	297	7.8 210833	2	AC018566	AC018566 Homo sapi
c 225	215.8	7.9 64810	9	AL391535	AL391535 Human DNA	c 298	7.8 217456	9	AC068319	AC068319 Homo sapi
c 226	215.8	7.9 108879	9	AC004804	AC004804 Homo sapi	c 299	7.8 233304	2	AC146694	AC146694 Pan trogl
c 227	215.8	7.9 113851	2	AP000571	AP000571 Homo sapi	c 300	7.8 43577	9	AC090670	AC090670 Homo sapi
c 228	215.8	7.9 115664	2	AC010324	AC010324 Homo sapi	c 301	7.8 98876	9	AC009488	AC009488 Homo sapi
c 229	215.8	7.9 129090	2	AC083961	AC083961 Homo sapi	c 302	7.8 100921	9	AC004996	AC004996 Homo sapi
c 230	215.8	7.9 131259	2	AP001805	AP001805 Homo sapi	c 303	7.8 101083	2	AC139010	AC139010 Homo sapi
c 231	215.8	7.9 163924	2	AL162592	AL162592 Homo sapi	c 304	7.8 110580	9	AP000446	AP000446 Homo sapi
c 232	215.8	7.9 166336	9	AL445467	AL445467 Human DNA	c 305	7.8 112638	9	HSJ329124	AL132874 Human DNA
c 233	215.8	7.9 167319	9	AL354798	AL354798 Human DNA	c 306	7.8 119378	9	AL449323	AL449323 Human DNA
c 234	215.8	7.9 176577	9	AL157831	AL157831 Human DNA	c 307	7.8 122146	9	AC011736	AC011736 Homo sapi
c 235	215.8	7.9 184040	2	AC011877	AC011877 Homo sapi	c 308	7.8 123019	9	AC111006	AC111006 Homo sapi
c 236	215.8	7.9 184349	9	AC046176	AC046176 Homo sapi	c 309	7.8 131753	9	AL358790	AL358790 Human DNA
c 237	215.8	7.9 189412	2	AC023532	AC023532 Homo sapi	c 310	7.8 133218	9	AC008410	AC008410 Homo sapi
c 238	215.8	7.9 195108	9	AC021106	AC021106 Homo sapi	c 311	7.8 155645	2	AC021153	AC021153 Homo sapi
c 239	215.8	7.9 200822	9	AL591806	AL591806 Human DNA	c 312	7.8 156589	9	HSJ37K23	AL034405 Human DNA
c 240	215.8	7.9 205152	9	AP002985	AP002985 Homo sapi	c 313	7.8 159681	2	AC036239	AC036239 Homo sapi
c 241	215.6	7.8 78539	9	HSJ647M16	AL049653 Human DNA	c 314	7.8 160446	2	AC145952	AC145952 Pan trogl
c 242	215.6	7.8 106499	9	AC023271	AC023271 Homo sapi	c 315	7.8 162691	2	AC013523	AC013523 Homo sapi
c 243	215.6	7.8 146610	9	AL139395	AL139395 Human DNA	c 316	7.8 163338	9	AL162426	AL162426 Human DNA
c 244	215.6	7.8 158434	9	AL500527	AL500527 Human DNA	c 317	7.8 166995	2	AC022631	AC022631 Homo sapi
c 245	215.6	7.8 166372	9	AL353705	AL353705 Human DNA	c 318	7.8 170371	9	AP001132	AP001132 Homo sapi
c 246	215.6	7.8 171175	9	AC135507	AC135507 Homo sapi	c 319	7.8 172588	2	AC007430	AC007430 Homo sapi
c 247	215.6	7.8 172800	2	AL356597	AL356597 Homo sapi	c 320	7.8 173758	9	AC009144	AC009144 Homo sapi
c 248	215.6	7.8 173738	2	AC147314	AC147314 Pan trogl	c 321	7.8 175967	9	AC010834	AC010834 Homo sapi
c 249	215.6	7.8 187960	9	AP000866	AP000866 Homo sapi	c 322	7.8 193787	2	AP000774	AP000774 Homo sapi
c 250	215.6	7.8 189671	2	AC067848	AC067848 Homo sapi	c 323	7.8 196852	9	AC084866	AC084866 Homo sapi
c 251	215.6	7.8 195433	9	AC026778	AC026778 Homo sapi	c 324	7.8 197817	2	AP001185	AP001185 Homo sapi
c 252	215.6	7.8 195773	2	AC073134	AC073134 Homo sapi	c 325	7.8 227968	9	AP053356	AP053356 Homo sapi
c 253	215.4	7.8 20975	9	AL713892	AL713892 Human DNA	c 326	7.8 289889	2	AC143085	AC143085 Macaca mu
c 254	215.4	7.8 36229	9	AC004799	AC004799 Homo sapi	c 327	7.8 22481	6	AR178466	AR178466 Sequence
c 255	215.4	7.8 37680	2	AL359985	AL359985 Homo sapi	c 328	7.8 22484	6	AX410695	AX410695 Sequence
c 256	215.4	7.8 106497	9	AL157934	AL157934 Human DNA	c 329	7.8 22484	9	HSJ29953	U29953 Human plgme
c 257	215.4	7.8 126614	9	AL583822	AL583822 Human DNA	c 330	7.8 101010	9	HS445N2	AL031779 Human DNA
c 258	215.4	7.8 141003	9	AC078778	AC078778 Homo sapi	c 331	7.8 146101	9	AC009720	AC009720 Homo sapi
c 259	215.4	7.8 146158	9	AL136136	AL136136 Human DNA	c 332	7.8 147634	9	AC055740	AC055740 Homo sapi
c 260	215.4	7.8 149490	9	AC130455	AC130455 Homo sapi	c 333	7.8 159691	9	AC025160	AC025160 Homo sapi
c 261	215.4	7.8 150129	2	AC023816	AC023816 Homo sapi	c 334	7.8 160114	2	AC023073	AC023073 Homo sapi
c 262	215.4	7.8 162907	2	AC027499	AC027499 Homo sapi	c 335	7.8 163157	9	AC108670	AC108670 Homo sapi
c 263	215.4	7.8 164180	9	AC016725	AC016725 Homo sapi	c 336	7.8 164885	2	AC126227	AC126227 Papio anu
c 264	215.4	7.8 175771	2	AC146189	AC146189 Pan trogl	c 337	7.8 166138	9	AC099684	AC099684 Homo sapi
c 265	215.4	7.8 176231	2	AC023583	AC023583 Homo sapi	c 338	7.8 172945	9	AC007220	AC007220 Homo sapi
c 266	215.4	7.8 176541	9	AL929325	AL929325 Human DNA	c 339	7.8 177582	9	AC093834	AC093834 Homo sapi
c 267	215.4	7.8 193775	9	AC004801	AC004801 Homo sapi	c 340	7.8 179380	9	AL355501	AL355501 Human DNA
c 268	215.4	7.8 197019	9	AL157938	AL157938 Human DNA	c 341	7.8 179604	2	AC012128	AC012128 Homo sapi
c 269	215.4	7.8 210688	2	AC139257	AC139257 Homo sapi	c 342	7.8 180333	2	AC021695	AC021695 Homo sapi
c 270	215.4	7.8 212387	9	AC140504	AC140504 Homo sapi	c 343	7.8 188552	9	AC009994	AC009994 Homo sapi
c 271	215.4	7.8 214965	2	AL357493	AL357493 Homo sapi	c 344	7.8 190202	9	AC022021	AC022021 Homo sapi
c 272	215.4	7.8 226841	2	HSAC002043	HSAC002043 Sequence	c 345	7.8 190982	2	AC025285	AC025285 Homo sapi
c 273	215.2	7.8 80142	9	AL645465	AL645465 Human DNA	c 346	7.8 200791	2	AC125507	AC125507 Papio anu
c 274	215.2	7.8 86999	9	AC124947	AC124947 Homo sapi	c 347	7.8 206587	9	AL138898	AL138898 Human DNA
c 275	215.2	7.8 110939	9	CNS01DSW	AL122021 Human chr	c 348	7.8 217253	9	AC130343	AC130343 Homo sapi
c 276	215.2	7.8 112479	9	AP002336	AP002336 Homo sapi	c 349	7.8 321519	2	AL714004	AL714004 Homo sapi
c 277	215.2	7.8 115602	2	AC146390	AC146390 Pan trogl	c 350	7.8 12253	9	AL450285	AL450285 Human DNA
c 278	215.2	7.8 129272	9	AL451125	AL451125 Human DNA	c 351	7.8 14581	6	AR231237	AR231237 Sequence
c 279	215.2	7.8 143306	6	AX411767	AX411767 Sequence	c 352	7.8 17222	9	AF540377	AF540377 Homo sapi
c 280	215.2	7.8 145101	2	AC021775	AC021775 Homo sapi	c 353	7.8 113754	9	HSJ342K12	AL121918 Human DNA
c 281	215.2	7.8 153539	2	AL591168	AL591168 Homo sapi	c 354	7.8 148689	9	AC093168	AC093168 Homo sapi
c 282	215.2	7.8 157226	9	AC018902	AC018902 Homo sapi	c 355	7.8 152037	9	HS167A19	AL031427 Human DNA
c 283	215.2	7.8 159506	9	HS3418	AL021918 Human DNA	c 356	7.8 168528	9	AL355861	AL355861 Human DNA
c 284	215.2	7.8 166000	9	AC090509	AC090509 Homo sapi	c 357	7.8 171058	9	AC073068	AC073068 Homo sapi

358	214.6	7.8	171941	9	AL365274	Human DNA	431	213.8	7.8	6849	9	S76771	TPO=thromb
359	214.6	7.8	176181	9	AC008155	Homo sapi	432	213.8	7.8	28452	9	HUMBM77	MS7965 Homo sapien
360	214.6	7.8	185209	2	AL390314	Homo sapi	433	213.8	7.8	99545	9	AC026115	MS7965 Homo sapien
361	214.6	7.8	200426	9	AC093117	Homo sapi	434	213.8	7.8	110000	2	AL290901	Continuation (11 o
362	214.6	7.8	201716	9	AC009141	Homo sapi	435	213.8	7.8	117853	2	AC007030	Continuation (11 o
363	214.4	7.8	61713	9	AL608763	Human DNA	436	213.8	7.8	120125	2	AF301505	AC007030 Homo sapi
364	214.4	7.8	74671	9	AL449106	Human DNA	437	213.8	7.8	123381	2	AF000577	AF301505 Homo sapi
365	214.4	7.8	110000	2	AC130427	1	438	213.8	7.8	123284	2	HSJ99821	AF000577 Homo sapi
366	214.4	7.8	126502	9	AC100788	Homo sapi	439	213.8	7.8	128440	2	AC002419	AF000577 Homo sapi
367	214.4	7.8	132492	9	AC007616	Homo sapi	440	213.8	7.8	133525	2	AL713999	AF000577 Homo sapi
368	214.4	7.8	157152	9	AC073427	Homo sapi	441	213.8	7.8	148405	9	AP003354	AL713999 Human DNA
369	214.4	7.8	157989	2	AC141591	Homo sapi	442	213.8	7.8	151449	9	AC093152	AP003354 Homo sapi
370	214.4	7.8	161103	9	AL392163	Human DNA	443	213.8	7.8	157910	9	CNS01DTR	AC093152 Homo sapi
371	214.4	7.8	161397	2	AC090218	Homo sapi	444	213.8	7.8	159593	9	AC004832	AL132855 Human chr
372	214.4	7.8	163027	9	AC002549	Homo sapi	445	213.8	7.8	161706	2	AC021194	AC004832 Homo sapi
373	214.4	7.8	166299	9	AC092178	Homo sapi	446	213.8	7.8	162170	2	AC068345	AC004832 Homo sapi
374	214.4	7.8	170540	2	AC092707	Homo sapi	447	213.8	7.8	166704	2	AC078797	AL713999 Human DNA
375	214.4	7.8	171985	9	AL445675	Human DNA	448	213.8	7.8	174988	2	AL928903	AL713999 Human DNA
376	214.4	7.8	179006	9	AL136365	Human DNA	449	213.8	7.8	175747	9	AP001085	AL928903 Homo sapi
377	214.4	7.8	184675	9	AC145964	Pan trogl	450	213.8	7.8	176393	9	AC051654	AP001085 Homo sapi
378	214.4	7.8	185545	2	AC013698	Homo sapi	451	213.8	7.8	182955	9	AL445237	AC051654 Homo sapi
379	214.4	7.8	189363	9	AC126603	Homo sapi	452	213.8	7.8	185378	9	AL118754	AL445237 Human DNA
380	214.4	7.8	190306	2	AC146080	Pan trogl	453	213.8	7.8	186248	2	AC026021	AL118754 Homo sapi
381	214.4	7.8	190735	2	AC026084	Homo sapi	454	213.8	7.8	190466	2	AC022285	AC026021 Homo sapi
382	214.4	7.8	191866	2	AC068676	Homo sapi	455	213.8	7.8	195494	9	AC091153	AC022285 Homo sapi
383	214.4	7.8	199992	2	AC021522	Homo sapi	456	213.8	7.8	199463	2	AC129497	AC091153 Homo sapi
384	214.4	7.8	206665	2	AC092872	Pan trogl	457	213.8	7.8	201305	2	AC117437	AC129497 Homo sapi
385	214.4	7.8	209109	9	AC116025	Homo sapi	458	213.8	7.8	216497	9	HSNDJ37C10	AC117437 Homo sapi
386	214.4	7.8	36339	9	HSB333B7	Human DNA	459	213.6	7.8	6743	9	HSNDJ37C10	AL049569 Human DNA
387	214.2	7.8	45276	9	AL512654	Human DNA	460	213.6	7.8	38196	9	XY220757	X92877 H. sapiens N
388	214.2	7.8	50217	9	AL356652	Human DNA	461	213.6	7.8	38196	9	XY220757	X92877 H. sapiens N
389	214.2	7.8	61228	9	AC106706	Homo sapi	462	213.6	7.8	111344	9	AL139403	AC130682 Homo sapi
390	214.2	7.8	63684	9	AL357564	Human DNA	463	213.6	7.8	120773	9	AL139322	AL139403 Human DNA
391	214.2	7.8	64792	9	AL390028	Human DNA	464	213.6	7.8	128036	2	AC025071	AL139322 Human DNA
392	214.2	7.8	112748	9	AC007242	Homo sapi	465	213.6	7.8	130077	9	AL353643	AC025071 Homo sapi
393	214.2	7.8	120070	9	AC092929	Homo sapi	466	213.6	7.8	133218	9	AC008410	AL353643 Human DNA
394	214.2	7.8	128846	9	AL359375	Human DNA	467	213.6	7.8	140073	9	CNS01DTR	AC008410 Homo sapi
395	214.2	7.8	127905	9	AL513550	Human DNA	468	213.6	7.8	143409	2	AP001787	AL132819 Human chr
396	214.2	7.8	128618	9	AC011485	Homo sapi	469	213.6	7.8	145148	9	AC0079915	AP001787 Homo sapi
397	214.2	7.8	142085	9	AL359707	Human DNA	470	213.6	7.8	146370	2	AC006595	AC0079915 Homo sapi
398	214.2	7.8	154375	2	AC145837	Pan trogl	471	213.6	7.8	151478	9	AL445071	AC006595 Homo sapi
399	214.2	7.8	157145	2	AC146323	Pan trogl	472	213.6	7.8	157073	9	AC005027	AL445071 Human DNA
400	214.2	7.8	158990	2	AL591702	Homo sapi	473	213.6	7.8	157375	2	AC025747	AC005027 Homo sapi
401	214.2	7.8	165902	9	AC106763	Homo sapi	474	213.6	7.8	157841	2	AC125423	AC025747 Homo sapi
402	214.2	7.8	168169	2	AC145953	Pan trogl	475	213.6	7.8	157860	9	AL391241	AC125423 Homo sapi
403	214.2	7.8	181074	2	AC146626	Papio anu	476	213.6	7.8	170399	9	HSDJ680DS	AL391241 Human DNA
404	214.2	7.8	184730	2	AC146676	Papio anu	477	213.6	7.8	177901	9	AC011893	AL121992 Human DNA
405	214.2	7.8	185954	2	AC021975	Homo sapi	478	213.6	7.8	179836	9	AL590822	AC011893 Homo sapi
406	214.2	7.8	187360	9	AC021105	Homo sapi	479	213.6	7.8	181432	2	AC140960	AL590822 Human DNA
407	214.2	7.8	193132	2	AC025743	Homo sapi	480	213.6	7.8	184039	9	CNS0180X	AC140960 Papio anu
408	214.2	7.8	199670	9	AC142303	Pan trogl	481	213.6	7.8	198253	9	AC009090	AL109767 Human chr
409	214.2	7.8	200237	9	AF168787	Homo sapi	482	213.6	7.8	199656	9	AC032044	AC009090 Homo sapi
410	214	7.8	56641	2	AL138833	Homo sapi	483	213.6	7.8	213432	2	AC068198	AC032044 Homo sapi
411	214	7.8	63262	9	AL138968	Human DNA	484	213.6	7.8	217521	9	AC023825	AC068198 Homo sapi
412	214	7.8	111998	9	AC011509	Homo sapi	485	213.6	7.8	228098	9	AL596247	AC023825 Homo sapi
413	214	7.8	112067	9	AC008894	Homo sapi	486	213.4	7.8	31874	9	HSBA44G7	AL596247 Human DNA
414	214	7.8	126876	9	AL121988	Human DNA	487	213.4	7.8	64695	9	AL140062	AL117330 Human DNA
415	214	7.8	129261	2	AC068247	Homo sapi	488	213.4	7.8	84997	9	AL583832	AL140062 Homo sapi
416	214	7.8	133289	9	AC012317	Homo sapi	489	213.4	7.8	109296	9	AC083949	AL583832 Homo sapi
417	214	7.8	134105	9	AL603910	Human DNA	490	213.4	7.8	119951	2	AC025267	AC083949 Homo sapi
418	214	7.8	138538	9	AC011445	Homo sapi	491	213.4	7.8	123529	9	AF179296	AC025267 Homo sapi
419	214	7.8	143039	9	AC016559	Homo sapi	492	213.4	7.8	127145	9	HS1119A7	AF179296 Homo sapi
420	214	7.8	157477	9	AL162458	Human DNA	493	213.4	7.8	141759	9	AC006209	HS1119A7 Human DNA
421	214	7.8	165743	9	AC007606	Homo sapi	494	213.4	7.8	144766	2	AC073209	AC006209 Homo sapi
422	214	7.8	166743	9	AP003357	Homo sapi	495	213.4	7.8	145456	9	AL513366	AC073209 Homo sapi
423	214	7.8	168110	9	HS247113	Human DNA	496	213.4	7.8	149383	9	AC103727	AL513366 Homo sapi
424	214	7.8	171747	9	AP001554	Homo sapi	497	213.4	7.8	153452	2	AC044895	AC103727 Homo sapi
425	214	7.8	177047	9	AC073082	Homo sapi	498	213.4	7.8	158467	2	AC011314	AC044895 Homo sapi
426	214	7.8	184926	9	AP000757	Homo sapi	499	213.4	7.8	159840	2	AP000869	AC011314 Homo sapi
427	214	7.8	190225	2	AC011191	Homo sapi	500	213.4	7.8	160754	9	AC006213	AP000869 Homo sapi
428	214	7.8	192954	2	AC146902	Callicebu	501	213.4	7.8	161034	2	AL359927	AC006213 Homo sapi
429	214	7.8	198042	9	AC019205	Homo sapi	502	213.4	7.8	173375	2	AC044815	AL359927 Homo sapi
430	214	7.8	206463	2	AP000834	Homo sapi	503	213.4	7.8	176522	2	AC018373	AC044815 Homo sapi

C 504	213.4	7.8 180049	9	AC099558	Homo sapi
C 505	213.4	7.8 185000	2	AC007799	Homo sapi
C 506	213.4	7.8 186504	2	AC006040	Homo sapi
C 507	213.4	7.8 190708	9	AC005261	Homo sapi
C 508	213.4	7.8 198521	2	AC145723	Homo sapi
C 509	213.4	7.8 199268	2	AC099523	Homo sapi
C 510	213.4	7.8 199621	2	AC146278	Pan trogl
C 511	213.4	7.8 209859	9	AC084083	Homo sapi
C 512	213.4	7.8 209870	9	AC104431	Homo sapi
C 513	213.4	7.8 216264	9	AC099518	Homo sapi
C 514	213.4	7.8 219935	9	AC005015	Homo sapi
C 515	213.4	7.8 231160	2	AC135717	Homo sapi
C 516	213.2	7.8 4039	9	AB030001	Homo sapi
C 517	213.2	7.8 74822	2	AC136359	Homo sapi
C 518	213.2	7.8 75022	9	AF452638	Homo sapi
C 519	213.2	7.8 78947	9	AL136126	Homo sapi
C 520	213.2	7.8 87636	9	AL139039	Human DNA
C 521	213.2	7.8 88883	9	AC107911	Homo sapi
C 522	213.2	7.8 99957	6	AX695923	Sequence
C 523	213.2	7.8 100167	9	HSJ189GL13	Human DNA
C 524	213.2	7.8 103277	2	AC087824	Homo sapi
C 525	213.2	7.8 104335	9	AC016292	Homo sapi
C 526	213.2	7.8 105692	2	AP000618	Homo sapi
C 527	213.2	7.8 108633	2	AL133518	Homo sapi
C 528	213.2	7.8 114791	9	AL121758	Human DNA
C 529	213.2	7.8 115515	9	AL118505	Human DNA
C 530	213.2	7.8 118684	9	AC025335	Homo sapi
C 531	213.2	7.8 121017	9	AC087388	Homo sapi
C 532	213.2	7.8 122280	9	AC004847	Homo sapi
C 533	213.2	7.8 137248	9	AC019051	Homo sapi
C 534	213.2	7.8 137693	9	AC003689	Homo sapi
C 535	213.2	7.8 142179	9	AL355526	Human DNA
C 536	213.2	7.8 146515	2	AC146981	Homo sapi
C 537	213.2	7.8 146548	2	AC023858	Homo sapi
C 538	213.2	7.8 146746	9	HS50722	Human DNA
C 539	213.2	7.8 146989	2	AC015598	Homo sapi
C 540	213.2	7.8 153026	9	AL391280	Human DNA
C 541	213.2	7.8 156949	9	AL161652	Human DNA
C 542	213.2	7.8 163108	2	AC016741	Homo sapi
C 543	213.2	7.8 165510	2	AC022677	Homo sapi
C 544	213.2	7.8 165941	2	AC008049	Homo sapi
C 545	213.2	7.8 172052	9	AL157769	Human DNA
C 546	213.2	7.8 176544	2	AL138877	Homo sapi
C 547	213.2	7.8 177402	9	AC007406	Homo sapi
C 548	213.2	7.8 179568	9	AL131263	Homo sapi
C 549	213.2	7.8 187157	9	AL139384	Human DNA
C 550	213.2	7.8 189406	9	AC112717	Homo sapi
C 551	213.2	7.8 190856	2	AC024505	Homo sapi
C 552	213.2	7.8 194377	2	AC021726	Homo sapi
C 553	213.2	7.8 195370	2	AL390063	Homo sapi
C 554	213	7.7 13865	6	AR112952	Sequence
C 555	213	7.7 13865	6	AR112968	Sequence
C 556	213	7.7 13865	6	BD194673	Tissue fa
C 557	213	7.7 13865	9	HUMTFPB	Human tissue
C 558	213	7.7 60500	9	AC131238	Homo sapi
C 559	213	7.7 72147	2	AC124801	Homo sapi
C 560	213	7.7 76540	9	AC003678	Homo sapi
C 561	213	7.7 77878	2	AC126362	Homo sapi
C 562	213	7.7 91200	9	AP001152	Homo sapi
C 563	213	7.7 93399	9	AL161937	Human DNA
C 564	213	7.7 94121	9	AL109806	Human DNA
C 565	213	7.7 99183	9	AL360091	Human DNA
C 566	213	7.7 101319	9	AL392109	Human DNA
C 567	213	7.7 121129	9	AL357315	Human DNA
C 568	213	7.7 123132	2	AP000589	Homo sapi
C 569	213	7.7 129758	9	AC118269	Homo sapi
C 570	213	7.7 131933	9	AL590311	Human DNA
C 571	213	7.7 137693	9	AC003689	Homo sapi
C 572	213	7.7 138536	9	AL116914	Homo sapi
C 573	213	7.7 141790	9	AL590636	Human DNA
C 574	213	7.7 147556	2	AC011007	Homo sapi
C 575	213	7.7 148531	9	AC079089	Homo sapi
C 576	213	7.7 153650	9	AC022296	Homo sapi

C 577	213	7.7 155380	9	AC078777	Homo sapi
C 578	213	7.7 156507	2	AC036184	Homo sapi
C 579	213	7.7 159663	2	AC135960	Pan trogl
C 580	213	7.7 164466	2	AC126353	Homo sapi
C 581	213	7.7 165263	2	AC146423	Pan trogl
C 582	213	7.7 165430	9	AC091588	Homo sapi
C 583	213	7.7 166625	9	BS000032	Pan trogl
C 584	213	7.7 167265	9	AC129916	Homo sapi
C 585	213	7.7 168210	9	AL133344	Human DNA
C 586	213	7.7 168544	9	AL133344	Human DNA
C 587	213	7.7 169405	9	AC092800	Homo sapi
C 588	213	7.7 171978	2	AC009669	Homo sapi
C 589	213	7.7 173716	9	AC115090	Homo sapi
C 590	213	7.7 175838	9	AC026427	Homo sapi
C 591	213	7.7 180636	9	AC020901	Homo sapi
C 592	213	7.7 184851	2	AC144748	Pan trogl
C 593	213	7.7 187318	2	AC026087	Homo sapi
C 594	213	7.7 187350	9	AC090696	Homo sapi
C 595	213	7.7 192725	9	AC092431	Homo sapi
C 596	213	7.7 197099	9	AL136979	Human DNA
C 597	213	7.7 198134	2	AC024117	Homo sapi
C 598	213	7.7 200237	9	AF168787	Homo sapi
C 599	213	7.7 201460	9	AP003721	Homo sapi
C 600	213	7.7 206309	9	AY371697	Homo sapi
C 601	213	7.7 210957	2	AL392188	Homo sapi
C 602	213	7.7 213740	9	AC004980	Homo sapi
C 603	212.8	7.7 39009	9	AC004232	Homo sapi
C 604	212.8	7.7 70975	2	AP000579	Homo sapi
C 605	212.8	7.7 94074	9	HSBC17A96	Homo sapi
C 606	212.8	7.7 94212	9	AP000246	Homo sapi
C 607	212.8	7.7 100000	9	AP000208	Homo sapi
C 608	212.8	7.7 106018	9	HS864118	Human DNA
C 609	212.8	7.7 123454	9	HSBC17A99	Homo sapi
C 610	212.8	7.7 123495	9	AC008502	Homo sapi
C 611	212.8	7.7 144878	2	AC145422	Homo sapi
C 612	212.8	7.7 154055	2	AC084079	Homo sapi
C 613	212.8	7.7 154539	2	AC079187	Homo sapi
C 614	212.8	7.7 156909	9	AB020863	Homo sapi
C 615	212.8	7.7 158995	9	AL590679	Homo sapi
C 616	212.8	7.7 159130	2	AC026847	Homo sapi
C 617	212.8	7.7 160725	2	HS919B11	Homo sapi
C 618	212.8	7.7 162589	2	AC015717	Homo sapi
C 619	212.8	7.7 165173	2	AC037444	Homo sapi
C 620	212.8	7.7 168111	9	HS525L6	Human DNA
C 621	212.8	7.7 170908	9	HSBA28009	Human DNA
C 622	212.8	7.7 171075	2	AC026842	Homo sapi
C 623	212.8	7.7 172601	2	AC021455	Homo sapi
C 624	212.8	7.7 173585	9	AC090527	Homo sapi
C 625	212.8	7.7 180366	9	AC036196	Homo sapi
C 626	212.8	7.7 181183	2	AL391866	Homo sapi
C 627	212.8	7.7 182449	2	AC015709	Homo sapi
C 628	212.8	7.7 182776	2	AC009766	Homo sapi
C 629	212.8	7.7 183015	2	AC140064	Homo sapi
C 630	212.8	7.7 185376	9	AC005096	Homo sapi
C 631	212.8	7.7 185710	2	AF276255	Homo sapi
C 632	212.8	7.7 185848	2	AC105415	Homo sapi
C 633	212.8	7.7 191746	9	AC079325	Homo sapi
C 634	212.8	7.7 196773	9	AC114480	Homo sapi
C 635	212.8	7.7 199669	9	AC026469	Homo sapi
C 636	212.8	7.7 201306	2	AC087390	Homo sapi
C 637	212.8	7.7 203078	2	AC083901	Homo sapi
C 638	212.8	7.7 210508	2	AL35612	Pan trogl
C 639	212.8	7.7 213757	9	AL359921	Human DNA
C 640	212.8	7.7 237783	2	AC141848	Pan trogl
C 641	212.8	7.7 300050	9	AB100085	Pan trogl
C 642	212.8	7.7 340000	9	AP001710	Homo sapi
C 643	212.6	7.7 2265	9	BC063828	Homo sapi
C 644	212.6	7.7 68355	6	AX706967	Sequence
C 645	212.6	7.7 68355	6	AX707897	Sequence
C 646	212.6	7.7 68355	9	HUAC003026	Human Chr
C 647	212.6	7.7 105208	9	AL355515	Human DNA
C 648	212.6	7.7 109203	9	AC073838	Homo sapi
C 649	212.6	7.7 109445	9	AC008946	Homo sapi

650	212.6	7.7	110000	2	AC009801	Homo sapi	AC009801 Homo sapi	c 723	212.4	7.7	173394	9	CNS000001	AL049834 Human chr
651	212.6	7.7	117711	9	AP000662	Homo sapi	AP000662 Homo sapi	c 724	212.4	7.7	173441	9	AP000787	AP000787 Homo sapi
652	212.6	7.7	123368	9	HSJ3070D15	Human DNA	AL050327 Human DNA	725	212.4	7.7	173445	9	AC0078876	AC0078876 Homo sapi
653	212.6	7.7	127883	9	AL136141	Human DNA	AL136141 Human DNA	726	212.4	7.7	174742	2	AC016896	AC016896 Homo sapi
654	212.6	7.7	148456	2	AL133550	Homo sapi	AL133550 Homo sapi	727	212.4	7.7	179262	2	AL355343	AL355343 Human DNA
655	212.6	7.7	151766	9	AC016396	Homo sapi	AC016396 Homo sapi	728	212.4	7.7	179402	2	AP002349	AP002349 Homo sapi
656	212.6	7.7	155313	2	AC068315	Homo sapi	AC068315 Homo sapi	c 729	212.4	7.7	181102	9	AC090058	AC090058 Homo sapi
657	212.6	7.7	158430	2	AC012431	Homo sapi	AC012431 Homo sapi	c 730	212.4	7.7	183355	2	AC011857	AC011857 Homo sapi
658	212.6	7.7	158549	9	HS78C4	Human DNA s	297200 Human DNA s	731	212.4	7.7	183666	2	AC009487	AC009487 Homo sapi
659	212.6	7.7	160855	9	AC109925	Homo sapi	AC109925 Homo sapi	732	212.4	7.7	184778	2	AC023567	AC023567 Homo sapi
660	212.6	7.7	161090	9	AC117415	Homo sapi	AC117415 Homo sapi	c 733	212.4	7.7	190599	2	AL365339	AL365339 Homo sapi
661	212.6	7.7	163057	2	AC012419	Homo sapi	AC012419 Homo sapi	734	212.4	7.7	190744	9	AC005038	AC005038 Homo sapi
662	212.6	7.7	163852	9	AC015971	Homo sapi	AC015971 Homo sapi	735	212.4	7.7	192095	2	AP002781	AP002781 Homo sapi
663	212.6	7.7	168871	2	AC016117	Homo sapi	AC016117 Homo sapi	736	212.4	7.7	194407	2	AC068845	AC068845 Homo sapi
664	212.6	7.7	175839	9	AC004491	Homo sapi	AC004491 Homo sapi	737	212.4	7.7	195364	9	HS431A14	HS431A14 Human DNA s
665	212.6	7.7	180399	2	AC079252	Homo sapi	AC079252 Homo sapi	c 738	212.4	7.7	195434	9	AC090744	AC090744 Homo sapi
666	212.6	7.7	180918	2	AC091239	Homo sapi	AC091239 Homo sapi	c 739	212.4	7.7	200360	2	AC022898	AC022898 Homo sapi
667	212.6	7.7	181891	9	AC023356	Homo sapi	AC023356 Homo sapi	740	212.4	7.7	200548	2	AC040962	AC040962 Homo sapi
668	212.6	7.7	182433	2	AL358155	Homo sapi	AL358155 Homo sapi	c 741	212.4	7.7	206909	9	AC016397	AC016397 Homo sapi
669	212.6	7.7	183105	9	AC009497	Homo sapi	AC009497 Homo sapi	c 742	212.4	7.7	210164	2	AC010732	AC010732 Homo sapi
670	212.6	7.7	183451	2	AC005972	Homo sapi	AC005972 Homo sapi	c 743	212.4	7.7	213464	9	AC022165	AC022165 Homo sapi
671	212.6	7.7	183915	2	AC073967	Homo sapi	AC073967 Homo sapi	c 744	212.4	7.7	229045	9	AC008680	AC008680 Homo sapi
672	212.6	7.7	186218	9	AP006248	Homo sapi	AP006248 Homo sapi	c 745	212.4	7.7	340000	9	AP001693	AP001693 Homo sapi
673	212.6	7.7	186233	9	AC092329	Homo sapi	AC092329 Homo sapi	c 746	212.4	7.7	341560	2	AL596304	AL596304 Homo sapi
674	212.6	7.7	186591	6	AX706984	Sequence	AX706984 Sequence	747	212.2	7.7	4506	6	EL1962	EL1962 Human genom
675	212.6	7.7	186591	6	AX707914	Sequence	AX707914 Sequence	748	212.2	7.7	4506	6	EL12183	EL12183 Human throm
676	212.6	7.7	189317	2	AC024483	Homo sapi	AC024483 Homo sapi	749	212.2	7.7	4506	6	EL21215	EL21215 Human throm
677	212.6	7.7	196083	2	AC027092	Homo sapi	AC027092 Homo sapi	750	212.2	7.7	7666	9	HUMTA	D32046 Human gene
678	212.6	7.7	196772	9	AC087392	Homo sapi	AC087392 Homo sapi	751	212.2	7.7	9676	9	EX005110	EX005110 Human DNA
679	212.6	7.7	195523	9	AC012014	Homo sapi	AC012014 Homo sapi	752	212.2	7.7	54649	9	AL135935	AL135935 Human DNA
680	212.6	7.7	208417	9	AC025778	Homo sapi	AC025778 Homo sapi	c 753	212.2	7.7	79635	9	AC004650	AC004650 Homo sapi
681	212.6	7.7	208648	6	AX706965	Sequence	AX706965 Sequence	c 754	212.2	7.7	84710	9	HSBA358N2	AL121583 Human DNA
682	212.6	7.7	208648	6	AX706970	Sequence	AX706970 Sequence	c 755	212.2	7.7	89680	2	AC138709	AC138709 Homo sapi
683	212.6	7.7	208648	6	AX707895	Sequence	AX707895 Sequence	c 756	212.2	7.7	98415	9	AC073421	AC073421 Homo sapi
684	212.6	7.7	208648	6	AX707900	Sequence	AX707900 Sequence	c 757	212.2	7.7	118695	9	HSU672M15	AL049643 Human DNA
685	212.6	7.7	211544	9	AC025165	Homo sapi	AC025165 Homo sapi	c 758	212.2	7.7	128206	2	AC008633	AC008633 Homo sapi
686	212.6	7.7	216504	2	AC090268	Homo sapi	AC090268 Homo sapi	c 759	212.2	7.7	133651	9	AC092791	AC092791 Homo sapi
687	212.6	7.7	309805	2	AC026340	Homo sapi	AC026340 Homo sapi	c 760	212.2	7.7	134184	9	AC095044	AC095044 Homo sapi
688	212.4	7.7	20939	2	AC133798	Homo sapi	AC133798 Homo sapi	761	212.2	7.7	147760	9	AC011846	AC011846 Homo sapi
689	212.4	7.7	46264	2	AC137490	Homo sapi	AC137490 Homo sapi	c 762	212.2	7.7	157981	9	AC005184	AC005184 Homo sapi
690	212.4	7.7	48505	2	AC137489	Homo sapi	AC137489 Homo sapi	c 763	212.2	7.7	164382	2	AC018421	AC018421 Homo sapi
691	212.4	7.7	61209	9	AP000220	Homo sapi	AP000220 Homo sapi	c 764	212.2	7.7	165203	9	AL589693	AL589693 Human DNA
692	212.4	7.7	94770	9	HSJ570F03	Human DNA	AL050332 Human DNA	c 765	212.2	7.7	165565	2	AC073651	AC073651 Homo sapi
693	212.4	7.7	100000	9	AP000084	Homo sapi	AP000084 Homo sapi	766	212.2	7.7	165866	2	AC073202	AC073202 Homo sapi
694	212.4	7.7	100000	9	AP000136	Homo sapi	AP000136 Homo sapi	c 767	212.2	7.7	166424	9	AC011301	AC011301 Homo sapi
695	212.4	7.7	110702	9	AC097470	Homo sapi	AC097470 Homo sapi	c 768	212.2	7.7	167455	9	AC093281	AC093281 Homo sapi
696	212.4	7.7	110794	9	AL662827	Human DNA	AL662827 Human DNA	c 769	212.2	7.7	168571	9	CNS01DUF	AL133249 BAC seque
697	212.4	7.7	113176	9	AC092145	Homo sapi	AC092145 Homo sapi	c 770	212.2	7.7	170959	2	AC022197	AC022197 Homo sapi
698	212.4	7.7	119760	9	AC025458	Homo sapi	AC025458 Homo sapi	c 771	212.2	7.7	179262	9	AL355343	AL355343 Human DNA
699	212.4	7.7	121355	9	AL358943	Human DNA	AL358943 Human DNA	c 772	212.2	7.7	183591	2	AC135777	AC135777 Homo sapi
700	212.4	7.7	121460	2	AC027330	Homo sapi	AC027330 Homo sapi	773	212.2	7.7	184671	2	AC112648	AC112648 Homo sapi
701	212.4	7.7	127431	9	AC027796	Homo sapi	AC027796 Homo sapi	c 774	212.2	7.7	184778	2	AC023567	AC023567 Homo sapi
702	212.4	7.7	129808	9	AC079760	Homo sapi	AC079760 Homo sapi	775	212.2	7.7	188807	2	AC036199	AC036199 Homo sapi
703	212.4	7.7	133728	9	AL139220	Human DNA	AL139220 Human DNA	776	212.2	7.7	199443	2	AL354988	AL354988 Homo sapi
704	212.4	7.7	136021	9	AL662799	Human DNA	AL662799 Human DNA	777	212.2	7.7	204393	2	AC145989	AC145989 Pan trogl
705	212.4	7.7	136035	2	BX537284	Homo sapi	BX537284 Homo sapi	778	212.2	7.7	210000	2	AC006839	AC006839 Homo sapi
706	212.4	7.7	136915	2	AC091028	Homo sapi	AC091028 Homo sapi	c 779	212.2	7.7	248281	9	AC008737	AC008737 Homo sapi
707	212.4	7.7	136915	9	AC081763	Homo sapi	AC081763 Homo sapi	c 780	212.2	7.7	270105	2	AC099650	AC099650 Homo sapi
708	212.4	7.7	143498	2	AC019348	Homo sapi	AC019348 Homo sapi	c 781	212	7.7	1871	9	BC047446	BC047446 Homo sapi
709	212.4	7.7	149374	2	AC053520	Homo sapi	AC053520 Homo sapi	782	212	7.7	41848	2	AC006098	AC006098 Homo sapi
710	212.4	7.7	153568	9	AC002981	Homo sapi	AC002981 Homo sapi	c 783	212	7.7	67477	2	AC055848	AC055848 Homo sapi
711	212.4	7.7	159397	2	AC027040	Homo sapi	AC027040 Homo sapi	784	212	7.7	92998	9	AC008968	AC008968 Homo sapi
712	212.4	7.7	161742	2	AC036204	Homo sapi	AC036204 Homo sapi	c 785	212	7.7	103177	9	AP000841	AP000841 Homo sapi
713	212.4	7.7	163284	9	AL137000	Human DNA	AL137000 Human DNA	c 786	212	7.7	105866	2	AC021602	AC021602 Homo sapi
714	212.4	7.7	163396	9	AL161445	Human DNA	AL161445 Human DNA	787	212	7.7	108316	6	AX647597	AX647597 Sequence
715	212.4	7.7	164123	9	AL360078	Human DNA	AL360078 Human DNA	c 788	212	7.7	108625	9	AL356773	AL356773 Human DNA
716	212.4	7.7	164449	2	AC092320	Homo sapi	AC092320 Homo sapi	c 789	212	7.7	116139	9	AL356255	AL356255 Human DNA
717	212.4	7.7	167122	2	AC053532	Homo sapi	AC053532 Homo sapi	c 790	212	7.7	119566	9	HS274L7	282195 Human DNA s
718	212.4	7.7	170412	9	AC097528	Homo sapi	AC097528 Homo sapi	c 791	212	7.7	125477	2	AC022135	AC022135 Homo sapi
719	212.4	7.7	171361	9	BS000184	Pan trogl	BS000184 Pan trogl	c 792	212	7.7	131535	9	AC005875	AC005875 citb.188
720	212.4	7.7	172090	2	AC018477	Homo sapi	AC018477 Homo sapi	c 793	212	7.7	131747	9	AC124857	AC124857 Homo sapi
721	212.4	7.7	173239	9	AC016399	Homo sapi	AC016399 Homo sapi	c 794	212	7.7	132131	9	AL139159	AL139159 Human DNA
722	212.4	7.7	173386	2	AL353776	Homo sapi	AL353776 Homo sapi	795	212	7.7	141007	2	AC025764	AC025764 Homo sapi

C 796	212	7.7	143423	9	AL161932	Human DNA	869	211.8	7.7	192863	2	AC147313	AC147313	Pan trogl
C 797	212	7.7	146515	2	AC146981	Homo sapi	870	211.8	7.7	194399	9	AC146335	AC146335	Homo sapi
C 798	212	7.7	147054	2	AL356582	Homo sapi	C 871	211.8	7.7	197004	2	AC139501	AC139501	Homo sapi
C 799	212	7.7	148278	9	AC006101	ctb.338	C 872	211.8	7.7	198611	2	AC139800	AC139800	Homo sapi
C 800	212	7.7	148427	2	AC018981	Homo sapi	C 873	211.8	7.7	199372	9	AC145138	AC145138	Homo sapi
C 801	212	7.7	148540	9	HS212P9	Human DNA	C 874	211.8	7.7	201460	9	AP003721	AP003721	Homo sapi
C 802	212	7.7	148607	9	AC025471	Homo sapi	C 875	211.8	7.7	202791	2	AC139503	AC139503	Homo sapi
C 803	212	7.7	148849	9	AL158837	Human DNA	C 876	211.8	7.7	202943	2	AC010134	AC010134	Homo sapi
C 804	212	7.7	152741	2	AC021606	Homo sapi	C 877	211.8	7.7	210933	2	AC027394	AC027394	Homo sapi
C 805	212	7.7	159637	2	AC007990	Homo sapi	C 878	211.8	7.7	228263	2	AC079930	AC079930	Homo sapi
C 806	212	7.7	168217	9	AL138920	Human DNA	C 879	211.6	7.7	67045	2	AC127535	AC127535	Homo sapi
C 807	212	7.7	168931	2	AL144998	Pan trogl	C 880	211.6	7.7	82901	9	AC1391335	AC1391335	Human DNA
C 808	212	7.7	170423	9	AC018663	Human Chr	C 881	211.6	7.7	83543	9	AC004752	AC004752	Homo sapi
C 809	212	7.7	171309	9	AC012146	Homo sapi	C 882	211.6	7.7	84364	9	HS522J7	HS522J7	Human DNA
C 810	212	7.7	173670	9	AL133351	Human DNA	C 883	211.6	7.7	110665	9	HS696P19	HS696P19	Human DNA
C 811	212	7.7	174311	2	AL365319	Homo sapi	C 884	211.6	7.7	112184	9	AC008805	AC008805	Homo sapi
C 812	212	7.7	174556	9	AC120193	Homo sapi	C 885	211.6	7.7	119525	9	AC142496	AC142496	Homo sapi
C 813	212	7.7	176075	9	AC017079	Homo sapi	C 886	211.6	7.7	129120	2	AC099721	AC099721	Homo sapi
C 814	212	7.7	177067	2	AC016516	Homo sapi	C 887	211.6	7.7	129874	9	HSJ991B18	HSJ991B18	Human DNA
C 815	212	7.7	179627	9	AC113426	Homo sapi	C 888	211.6	7.7	130416	9	AC008851	AC008851	Homo sapi
C 816	212	7.7	181144	9	AL365444	Human DNA	C 889	211.6	7.7	132943	9	AC011287	AC011287	Homo sapi
C 817	212	7.7	181756	9	AC097714	Homo sapi	C 890	211.6	7.7	147156	9	AC142497	AC142497	Homo sapi
C 818	212	7.7	182917	9	AL139383	Human DNA	C 891	211.6	7.7	147974	2	AC076970	AC076970	Homo sapi
C 819	212	7.7	186563	9	AC104452	Homo sapi	C 892	211.6	7.7	150284	2	AC055815	AC055815	Homo sapi
C 820	212	7.7	186925	2	AC087503	Homo sapi	C 893	211.6	7.7	151259	2	AC138822	AC138822	Homo sapi
C 821	212	7.7	190534	9	AC034958	Homo sapi	C 894	211.6	7.7	152709	2	AC027526	AC027526	Homo sapi
C 822	212	7.7	190803	9	AL355490	Human DNA	C 895	211.6	7.7	153527	9	AC092806	AC092806	Homo sapi
C 823	212	7.7	191871	2	AC084133	Homo sapi	C 896	211.6	7.7	154516	9	AC090324	AC090324	Homo sapi
C 824	212	7.7	197000	2	AC124859	Homo sapi	C 897	211.6	7.7	155839	9	AC091959	AC091959	Homo sapi
C 825	212	7.7	207751	2	AC112189	Homo sapi	C 898	211.6	7.7	159044	2	AC025269	AC025269	Homo sapi
C 826	212	7.7	215150	9	AC026689	Homo sapi	C 899	211.6	7.7	160566	2	AC147021	AC147021	Pan trogl
C 827	212	7.7	215441	9	AC005736	Homo sapi	C 900	211.6	7.7	160701	9	AC108106	AC108106	Homo sapi
C 828	212	7.7	224187	9	AL732374	Human DNA	C 901	211.6	7.7	167071	9	AC092380	AC092380	Homo sapi
C 829	212	7.7	236486	9	AC021188	Homo sapi	C 902	211.6	7.7	172404	9	AC138948	AC138948	Homo sapi
C 830	212	7.7	242159	2	AC091567	Homo sapi	C 903	211.6	7.7	172966	9	AC013467	AC013467	Homo sapi
C 831	212	7.7	242222	9	AC099668	Homo sapi	C 904	211.6	7.7	174654	9	AC073167	AC073167	Homo sapi
C 832	211.8	7.7	3827	9	HSMB03125	Homo sapi	C 905	211.6	7.7	180531	9	AC008745	AC008745	Homo sapi
C 833	211.8	7.7	43632	9	AC004144	Homo sapi	C 906	211.6	7.7	181154	2	AC138842	AC138842	Homo sapi
C 834	211.8	7.7	74507	9	AC004031	Homo sapi	C 907	211.6	7.7	182105	2	AC036149	AC036149	Homo sapi
C 835	211.8	7.7	86203	9	AC017116	Homo sapi	C 908	211.6	7.7	183032	2	AC143326	AC143326	Homo sapi
C 836	211.8	7.7	89198	2	AC021365	Homo sapi	C 909	211.6	7.7	183411	2	AC137495	AC137495	Homo sapi
C 837	211.8	7.7	103679	9	AL137005	Human DNA	C 910	211.6	7.7	183996	9	AF196779	AF196779	Homo sapi
C 838	211.8	7.7	106687	9	AL356124	Human DNA	C 911	211.6	7.7	184453	9	AC025593	AC025593	Homo sapi
C 839	211.8	7.7	110000	2	AC018724	Homo sapi	C 912	211.6	7.7	185785	9	AC138817	AC138817	Homo sapi
C 840	211.8	7.7	138778	9	AC009226	Homo sapi	C 913	211.6	7.7	185785	9	AC138850	AC138850	Homo sapi
C 841	211.8	7.7	140730	9	AC010942	Homo sapi	C 914	211.6	7.7	189098	9	AL512430	AL512430	Human DNA
C 842	211.8	7.7	149110	9	AP003692	Homo sapi	C 915	211.6	7.7	189143	2	AC142077	AC142077	Homo sapi
C 843	211.8	7.7	150560	2	AC146187	Pan trogl	C 916	211.6	7.7	189143	9	AC116533	AC116533	Homo sapi
C 844	211.8	7.7	151834	9	AC005399	Homo sapi	C 917	211.6	7.7	189672	9	AL133480	AL133480	Human DNA
C 845	211.8	7.7	155249	9	AC109487	Homo sapi	C 918	211.6	7.7	190076	9	AC008403	AC008403	Homo sapi
C 846	211.8	7.7	155809	2	AC145106	Homo sapi	C 919	211.6	7.7	191635	2	AC140122	AC140122	Homo sapi
C 847	211.8	7.7	157103	2	AC011886	Homo sapi	C 920	211.6	7.7	192814	9	AC007597	AC007597	Homo sapi
C 848	211.8	7.7	157580	9	AC010297	Homo sapi	C 921	211.6	7.7	192925	2	AC138953	AC138953	Homo sapi
C 849	211.8	7.7	158285	9	AC021066	Homo sapi	C 922	211.6	7.7	195226	2	AC141305	AC141305	Homo sapi
C 850	211.8	7.7	161090	9	AC117415	Homo sapi	C 923	211.6	7.7	196753	9	AC008055	AC008055	Homo sapi
C 851	211.8	7.7	161299	2	AC139508	Homo sapi	C 924	211.6	7.7	198248	2	AP001487	AP001487	Homo sapi
C 852	211.8	7.7	161970	9	AP005660	Homo sapi	C 925	211.6	7.7	201419	9	AC138908	AC138908	Homo sapi
C 853	211.8	7.7	162682	2	AC140140	Homo sapi	C 926	211.6	7.7	202269	9	AC130689	AC130689	Homo sapi
C 854	211.8	7.7	166046	2	AC080174	Homo sapi	C 927	211.6	7.7	205673	2	AC073131	AC073131	Homo sapi
C 855	211.8	7.7	167693	2	AC011639	Homo sapi	C 928	211.6	7.7	206192	9	AL133173	AL133173	Human DNA
C 856	211.8	7.7	168396	9	AC007546	Homo sapi	C 929	211.6	7.7	207131	2	AC144876	AC144876	Pongo pyg
C 857	211.8	7.7	170138	2	AC018794	Homo sapi	C 930	211.6	7.7	211297	2	AC138860	AC138860	Homo sapi
C 858	211.8	7.7	174071	2	AC139835	Homo sapi	C 931	211.6	7.7	214786	9	AC007610	AC007610	Homo sapi
C 859	211.8	7.7	174906	9	AC025428	Homo sapi	C 932	211.6	7.7	216200	2	AC138862	AC138862	Homo sapi
C 860	211.8	7.7	180013	2	AC091668	Pan trogl	C 933	211.6	7.7	216342	9	AC009132	AC009132	Homo sapi
C 861	211.8	7.7	180805	2	AC138837	Homo sapi	C 934	211.6	7.7	224148	2	AC016179	AC016179	Homo sapi
C 862	211.8	7.7	180837	2	AC022824	Homo sapi	C 935	211.6	7.7	225384	9	AC138832	AC138832	Homo sapi
C 863	211.8	7.7	182411	2	AC090408	Homo sapi	C 936	211.6	7.7	227245	9	AC008569	AC008569	Homo sapi
C 864	211.8	7.7	182557	2	AC091942	Homo sapi	C 937	211.6	7.7	238249	2	AC138960	AC138960	Homo sapi
C 865	211.8	7.7	184263	9	AC004805	Homo sapi	C 938	211.6	7.7	339940	2	AC139464	AC139464	Homo sapi
C 866	211.8	7.7	184485	2	AC009679	Homo sapi	C 939	211.4	7.7	44226	9	AY130859	AY130859	Homo sapi
C 867	211.8	7.7	189371	2	AC090230	Homo sapi	C 940	211.4	7.7	54423	9	AC104538	AC104538	Homo sapi
C 868	211.8	7.7	192464	9	AC090971	Homo sapi	C 941	211.4	7.7	66910	9	AC083757	AC083757	Homo sapi

942	211.4	7.7	76967	9	AC008475	AC008475 Homo sapi	c1015	211.2	7.7	156265	9	AC079140	AC079140 Homo sapi
C 943	211.4	7.7	81512	9	AC008412	AC008412 Homo sapi	1016	211.2	7.7	156415	9	AC011464	AC011464 Homo sapi
944	211.4	7.7	81891	9	AC108076	AC108076 Homo sapi	c1017	211.2	7.7	157481	9	AC093512	AC093512 Homo sapi
945	211.4	7.7	82359	9	AC004922	AC004922 Homo sapi	1018	211.2	7.7	160726	2	AC027120	AC027120 Homo sapi
946	211.4	7.7	86684	9	AC010605	AC010605 Homo sapi	1019	211.2	7.7	161635	9	AC083873	AC083873 Homo sapi
C 947	211.4	7.7	95422	9	AC073108	AC073108 Homo sapi	1020	211.2	7.7	163908	9	AC005411	AC005411 Homo sapi
C 948	211.4	7.7	97781	9	AL732479	Human DNA	1021	211.2	7.7	164622	2	AC026208	AC026208 Homo sapi
C 949	211.4	7.7	100000	9	AP000502	Homo sapi	1022	211.2	7.7	170269	2	AC144530	AC144530 Homo sapi
C 950	211.4	7.7	105238	9	AC011458	AC011458 Homo sapi	c1023	211.2	7.7	173877	2	AC108671	AC108671 Homo sapi
C 951	211.4	7.7	107315	9	AL136303	Human DNA	c1024	211.2	7.7	175830	2	AC090547	AC090547 Homo sapi
952	211.4	7.7	118269	9	HS441112	Human DNA	c1025	211.2	7.7	176910	9	AC013356	AC013356 Homo sapi
953	211.4	7.7	120834	9	AC093602	AC093602 Homo sapi	c1026	211.2	7.7	177384	9	AC097639	AC097639 Homo sapi
954	211.4	7.7	125980	9	AC093223	AC093223 Homo sapi	c1027	211.2	7.7	180948	9	AC114399	AC114399 Homo sapi
C 955	211.4	7.7	130328	2	AC096622	Homo sapi	c1028	211.2	7.7	181022	9	AP001781	AP001781 Homo sapi
956	211.4	7.7	132642	2	AC146404	AC146404 Pan trogl	c1029	211.2	7.7	181605	2	AC021420	AC021420 Homo sapi
C 957	211.4	7.7	137345	9	AL669924	Human DNA	c1030	211.2	7.7	183689	2	AC146129	AC146129 Pan trogl
958	211.4	7.7	140349	9	AC027320	AC027320 Homo sapi	1031	211.2	7.7	184396	9	AC010853	AC010853 Homo sapi
C 959	211.4	7.7	146376	9	AC009247	AC009247 Homo sapi	c1032	211.2	7.7	184474	9	AL137026	AL137026 Human DNA
C 960	211.4	7.7	150192	9	AC008686	AC008686 Homo sapi	1033	211.2	7.7	188453	9	AC025521	AC025521 Homo sapi
C 961	211.4	7.7	150263	9	AC145132	AC145132 Homo sapi	c1034	211.2	7.7	188453	2	AL590875	AL590875 Homo sapi
962	211.4	7.7	153148	2	AC017030	AC017030 Homo sapi	1035	211.2	7.7	211025	2	AL590875	AL590875 Homo sapi
C 963	211.4	7.7	153464	2	AL844853	Human DNA	1036	211.2	7.7	211509	2	CNS08C8D	AL928654 Human chr
C 964	211.4	7.7	154622	2	AC126336	AC126336 Homo sapi	1037	211.2	7.7	213648	9	AL158040	AL158040 Human DNA
965	211.4	7.7	155132	2	AC080148	AC080148 Homo sapi	1038	211.2	7.7	221958	2	AC021705	AC021705 Homo sapi
966	211.4	7.7	155589	9	AC084879	AC084879 Homo sapi	c1039	211.2	7.7	226349	2	AC140865	AC140865 Homo sapi
C 967	211.4	7.7	156023	2	AC124612	AC124612 Homo sapi	1040	211.2	7.7	226910	2	AC141314	AC141314 Homo sapi
C 968	211.4	7.7	162065	9	AC103724	AC103724 Homo sapi	1041	211.2	7.7	305124	2	AC073858	AC073858 Homo sapi
969	211.4	7.7	163157	9	AC108670	AC108670 Homo sapi	1042	211	7.7	2544	6	AX876288	Sequence
C 970	211.4	7.7	163511	9	AL442203	Human DNA	1043	211	7.7	2544	6	BD156051	BD156051 Primer fo
971	211.4	7.7	166715	9	AC011294	AC011294 Homo sapi	1044	211	7.7	2544	9	AP000525	AP000525 Homo sapi
C 972	211.4	7.7	168111	9	HS525L6	Human DNA	c1045	211	7.7	39301	9	AP000525	AP000525 Homo sapi
C 973	211.4	7.7	169825	9	AC012652	AC012652 Homo sapi	1046	211	7.7	64071	2	AC013590	AC013590 Homo sapi
C 974	211.4	7.7	174235	9	AC145919	AC145919 Pan trogl	1047	211	7.7	78190	9	AC106760	AC106760 Homo sapi
C 975	211.4	7.7	176438	2	AC126761	AC126761 Homo sapi	c1048	211	7.7	79884	9	AC109440	AC109440 Homo sapi
C 976	211.4	7.7	176512	2	AC021099	AC021099 Homo sapi	c1049	211	7.7	88588	9	AC010453	AC010453 Homo sapi
C 977	211.4	7.7	177017	9	AC087294	AC087294 Homo sapi	c1050	211	7.7	93599	2	AC084728	AC084728 Homo sapi
C 978	211.4	7.7	178714	2	AC129504	AC129504 Homo sapi	1051	211	7.7	99251	9	AL592045	AL592045 Human DNA
C 979	211.4	7.7	180852	9	AC126765	AC126765 Homo sapi	c1052	211	7.7	102532	9	AL731550	AL731550 Human DNA
C 980	211.4	7.7	183334	9	AC020558	AC020558 Homo sapi	c1053	211	7.7	103069	9	AL606469	AL606469 Human DNA
C 981	211.4	7.7	186340	2	AC016684	AC016684 Homo sapi	c1054	211	7.7	103694	9	AC004836	AC004836 Homo sapi
982	211.4	7.7	187383	2	AC138954	AC138954 Homo sapi	c1055	211	7.7	112748	9	AC007242	AC007242 Homo sapi
983	211.4	7.7	187592	2	AC069033	AC069033 Homo sapi	c1056	211	7.7	114596	9	HS1063B2	AL035683 Human DNA
984	211.4	7.7	189356	9	AC005746	AC005746 Homo sapi	1057	211	7.7	115612	9	AY220758	AY220758 Homo sapi
985	211.4	7.7	190466	2	AC022285	AC022285 Homo sapi	1058	211	7.7	116061	9	AL732324	AL732324 Human DNA
C 986	211.4	7.7	194020	9	AC096679	AC096679 Pan trogl	1059	211	7.7	118121	2	AC034189	AC034189 Homo sapi
987	211.4	7.7	195646	9	AC093709	AC093709 Pan trogl	1060	211	7.7	122648	2	AC026025	AC026025 Homo sapi
988	211.4	7.7	197992	2	AC020715	AC020715 Homo sapi	1061	211	7.7	128899	9	AL391139	AL391139 Human DNA
C 989	211.4	7.7	209401	2	AC106885	AC106885 Homo sapi	c1062	211	7.7	132032	9	AC093635	AC093635 Homo sapi
C 990	211.4	7.7	209897	9	AP001029	AP001029 Homo sapi	1063	211	7.7	138621	9	AP002028	AP002028 Homo sapi
991	211.4	7.7	218723	9	AL732314	AL732314 Human DNA	1064	211	7.7	140409	2	AC044825	AC044825 Homo sapi
992	211.4	7.7	253328	2	AC130341	AC130341 Homo sapi	1065	211	7.7	145405	9	AC087612	AC087612 Homo sapi
C 993	211.2	7.7	22354	2	AC090729	AC090729 Homo sapi	1066	211	7.7	149253	2	AC012245	AC012245 Homo sapi
994	211.2	7.7	51000	9	AP005265	AP005265 Homo sapi	c1067	211	7.7	149317	9	AL954214	AL954214 Pan trogl
995	211.2	7.7	68589	9	HS237J2	Human DNA	c1068	211	7.7	153187	9	AL954215	AL954215 Pan trogl
C 996	211.2	7.7	73503	2	AC013586	AC013586 Homo sapi	1069	211	7.7	155691	9	AC016868	AC016868 Homo sapi
C 997	211.2	7.7	74486	9	AC055764	AC055764 Homo sapi	1070	211	7.7	157610	9	AC087235	AC087235 Homo sapi
C 998	211.2	7.7	100598	9	AC006271	AC006271 Homo sapi	c1071	211	7.7	157827	9	CNS01DRI	AL117258 Human chr
C 999	211.2	7.7	104782	9	CNS05TEZ	Human chr	c1072	211	7.7	159002	9	AC006013	AC006013 Homo sapi
C1000	211.2	7.7	111864	9	AL591499	AL591499 Human DNA	c1073	211	7.7	161386	9	AC103739	AC103739 Homo sapi
C1001	211.2	7.7	114149	9	AC022083	AC022083 Homo sapi	c1074	211	7.7	162509	9	AL137852	AL137852 Human DNA
1002	211.2	7.7	114596	9	HS1063B2	Human DNA	1075	211	7.7	163197	2	AC091392	AC091392 Pan trogl
C1003	211.2	7.7	114793	2	AP000769	AP000769 Homo sapi	1076	211	7.7	164330	2	AC016928	AC016928 Homo sapi
C1004	211.2	7.7	114983	2	AC093209	AC093209 Homo sapi	c1077	211	7.7	164331	2	AC016254	AC016254 Homo sapi
1005	211.2	7.7	119882	9	AC108024	AC108024 Homo sapi	1078	211	7.7	166343	9	CNS0108B	AL139785 Human chr
C1006	211.2	7.7	120000	9	AC073597	AC073597 Homo sapi	1079	211	7.7	167732	9	AC091082	AC091082 Papio anu
1007	211.2	7.7	129261	2	AC068247	AC068247 Homo sapi	c1080	211	7.7	167962	2	AC073484	AC073484 Homo sapi
C1008	211.2	7.7	135317	9	AC110769	AC110769 Homo sapi	c1081	211	7.7	170655	2	AP001012	AP001012 Homo sapi
1009	211.2	7.7	142347	9	HS094E34	Human DNA	c1082	211	7.7	170758	2	AC004965	AC004965 Homo sapi
C1010	211.2	7.7	144514	2	AC027433	AC027433 Homo sapi	c1083	211	7.7	172421	2	AC013279	AC013279 Homo sapi
C1011	211.2	7.7	144714	2	AC020891	AC020891 Homo sapi	c1084	211	7.7	172893	2	AC024596	AC024596 Homo sapi
C1012	211.2	7.7	147123	2	AC027030	AC027030 Homo sapi	c1085	211	7.7	173709	9	AP001010	AP001010 Homo sapi
C1013	211.2	7.7	149038	2	AC025112	AC025112 Homo sapi	c1086	211	7.7	176132	2	AC061976	AC061976 Homo sapi
1014	211.2	7.7	152574	9	AC011195	AC011195 Homo sapi	1087	211	7.7	179236	2	AC005143	AC005143 Homo sapi

c1088	211	7.7	179264	2	AC023112	AC023112 Homo sapi
1089	211	7.7	180163	2	AP001925	AP001925 Homo sapi
1090	211	7.7	182114	2	AC026296	AC026296 Homo sapi
c1091	211	7.7	182114	9	AC016706	AC016706 Homo sapi
1092	211	7.7	184121	9	HSU82828	HSU82828 Homo sapien
c1093	211	7.7	185321	9	AC123908	AC123908 Homo sapi
1094	211	7.7	188643	9	AC142329	AC142329 Pan trogl
c1095	211	7.7	190946	9	CNS01DDV1	AL133445 Human chr
c1096	211	7.7	195806	9	AC027243	AC027243 Homo sapi
1097	211	7.7	196292	9	CNS0000B	AL049829 Human chr
c1098	211	7.7	198784	2	AC021318	AC021318 Homo sapi
1099	211	7.7	201509	2	AC145356	AC145356 Gorilla g
1100	211	7.7	208738	9	AC019131	AC019131 Homo sapi
1101	211	7.7	212246	2	AC069232	AC069232 Homo sapi
1102	211	7.7	232180	2	AC021883	AC021883 Homo sapi
c1103	210.8	7.7	50334	9	HS995J12	AL035462 Human DNA
c1104	210.8	7.7	75454	9	AC011433	AC011433 Homo sapi
1105	210.8	7.7	78491	9	AC139768	AC139768 Homo sapi
1106	210.8	7.7	94879	9	AC103965	AC103965 Homo sapi
1107	210.8	7.7	97687	9	AL591403	AL591403 Human DNA
c1108	210.8	7.7	98992	9	AP001050	AP001050 Homo sapi
c1109	210.8	7.7	102019	9	HSUJ12G14	AL078581 Human DNA
1110	210.8	7.7	108032	9	AL162421	AL162421 Human DNA
c1111	210.8	7.7	108687	9	AL356320	AL356320 Human DNA
1112	210.8	7.7	109906	9	HS329E20	AL331005 Human DNA
c1113	210.8	7.7	113332	2	AC091767	AC091767 Homo sapi
c1114	210.8	7.7	114575	9	BX248088	EX248088 Human DNA
c1115	210.8	7.7	123233	2	AC084100	AC084100 Homo sapi
c1116	210.8	7.7	129120	2	AC098721	AC098721 Homo sapi
1117	210.8	7.7	134469	2	AC012682	AC012682 Homo sapi
1118	210.8	7.7	143967	9	AL365366	AL365366 Human DNA
c1119	210.8	7.7	144431	9	AC079376	AC079376 Homo sapi
1120	210.8	7.7	147078	2	AC080184	AC080184 Homo sapi
c1121	210.8	7.7	147102	9	AC002476	AC002476 Human PAC
1122	210.8	7.7	147556	2	AC011007	AC011007 Homo sapi
c1123	210.8	7.7	151111	9	AC125603	AC125603 Homo sapi
c1124	210.8	7.7	155521	9	AC069335	AC069335 Homo sapi
c1125	210.8	7.7	156776	9	AC011443	AC011443 Homo sapi
1126	210.8	7.7	157081	2	AC023084	AC023084 Homo sapi
c1127	210.8	7.7	157773	2	AC068099	AC068099 Homo sapi
1128	210.8	7.7	162189	9	AL592295	AL592295 Human DNA
c1129	210.8	7.7	163554	2	AC021786	AC021786 Homo sapi
c1130	210.8	7.7	164274	9	BS000103	BS000103 Pan trogl
1131	210.8	7.7	164382	2	AC018421	AC018421 Homo sapi
c1132	210.8	7.7	165203	9	AL589693	AL589693 Human DNA
c1133	210.8	7.7	166305	9	AC012447	AC012447 Homo sapi
c1134	210.8	7.7	166518	9	AC007431	AC007431 Homo sapi
1135	210.8	7.7	168512	9	AC100826	AC100826 Homo sapi
c1136	210.8	7.7	169511	9	AC146026	AC146026 Pan trogl
c1137	210.8	7.7	172393	2	AC025740	AC025740 Homo sapi
1138	210.8	7.7	172577	2	AL365174	AL365174 Homo sapi
c1139	210.8	7.7	172615	2	AC139765	AC139765 Homo sapi
1140	210.8	7.7	173415	9	AL591890	AL591890 Human DNA
c1141	210.8	7.7	174378	9	AC020983	AC020983 Homo sapi
c1142	210.8	7.7	177298	2	AC068751	AC068751 Homo sapi
1143	210.8	7.7	179623	9	AC013429	AC013429 Homo sapi
c1144	210.8	7.7	179871	2	AC024602	AC024602 Homo sapi
1145	210.8	7.7	181644	9	AC104989	AC104989 Homo sapi
c1146	210.8	7.7	184332	2	AC011777	AC011777 Homo sapi
1147	210.8	7.7	184539	2	AC027192	AC027192 Homo sapi
c1148	210.8	7.7	184621	2	AC104636	AC104636 Homo sapi
c1149	210.8	7.7	186115	9	AC008474	AC008474 Homo sapi
1150	210.8	7.7	191244	2	AC137604	AC137604 Homo sapi
c1151	210.8	7.7	191292	2	AC084420	AC084420 Homo sapi
1152	210.8	7.7	191925	9	AC008736	AC008736 Homo sapi
c1153	210.8	7.7	194427	9	AC093153	AC093153 Homo sapi
1154	210.8	7.7	194529	9	AC009677	AC009677 Homo sapi
c1155	210.8	7.7	195342	9	AC009120	AC009120 Homo sapi
1156	210.8	7.7	196363	9	AC096759	AC096759 Homo sapi
1157	210.8	7.7	199393	2	AC013374	AC013374 Homo sapi
c1158	210.8	7.7	200610	9	AP002851	AP002851 Homo sapi
c1159	210.8	7.7	201637	9	BX842589	EX842589 Chimp DNA
c1160	210.8	7.7	206302	2	AC133125	AC133125 Homo sapi
c1161	210.8	7.7	213466	2	AC019224	AC019224 Homo sapi
1162	210.8	7.7	259474	9	HUAC004605	AC004605 Homo sapi
c1163	210.8	7.7	340000	9	AP001751	AP001751 Homo sapi
1164	210.6	7.7	13799	9	AP000258	AP000258 Homo sapi
1165	210.6	7.7	39569	9	AC000084	AC000084 Homo sapi
1166	210.6	7.7	40351	9	AC005620	AC005620 Homo sapi
1167	210.6	7.7	42304	9	AC002491	AC002491 Homo sapi
c1168	210.6	7.7	62117	2	AC107891	AC107891 Homo sapi
c1169	210.6	7.7	64022	2	AC136348	AC136348 Homo sapi
1170	210.6	7.7	65393	2	AC104577	AC104577 Homo sapi
1171	210.6	7.7	70426	2	AC138371	AC138371 Homo sapi
c1172	210.6	7.7	77162	9	AC112694	AC112694 Homo sapi
c1173	210.6	7.7	92434	9	AL358793	AL358793 Human DNA
1174	210.6	7.7	100000	9	AP000098	AP000098 Homo sapi
1175	210.6	7.7	100000	9	AP000174	AP000174 Homo sapi
1176	210.6	7.7	100515	9	AL133289	AL133289 Human DNA
1177	210.6	7.7	103122	9	AC005663	AC005663 Homo sapi
c1178	210.6	7.7	106930	2	AC138283	AC138283 Homo sapi
1179	210.6	7.7	109568	2	AP000840	AP000840 Homo sapi
c1180	210.6	7.7	110144	9	AC008053	AC008053 Homo sapi
1181	210.6	7.7	112357	9	AC011378	AC011378 Homo sapi
1182	210.6	7.7	119991	9	AC110285	AC110285 Homo sapi
1183	210.6	7.7	130278	9	AC005664	AC005664 Homo sapi
1184	210.6	7.7	132053	9	AC017096	AC017096 Homo sapi
c1185	210.6	7.7	132875	9	AC112907	AC112907 Homo sapi
1186	210.6	7.7	133769	9	AC010362	AC010362 Homo sapi
1187	210.6	7.7	133769	9	AC010429	AC010429 Homo sapi
1188	210.6	7.7	140025	2	AC126233	AC126233 Pan trogl
1189	210.6	7.7	140401	9	AC092588	AC092588 Homo sapi
c1190	210.6	7.7	143060	9	AL929472	AL929472 Human DNA
c1191	210.6	7.7	143092	2	AC051641	AC051641 Homo sapi
c1192	210.6	7.7	143366	2	AL445304	AL445304 Homo sapi
1193	210.6	7.7	146652	2	AL445304	AL445304 Homo sapi
1194	210.6	7.7	149425	2	AC013320	AC013320 Homo sapi
c1195	210.6	7.7	152116	2	AC008471	AC008471 Homo sapi
1196	210.6	7.7	157145	2	AC146323	AC146323 Pan trogl
1197	210.6	7.7	157912	9	AL133387	AL133387 Human DNA
c1198	210.6	7.7	158905	9	AC005666	AC005666 Homo sapi
1199	210.6	7.7	160034	9	AC007846	AC007846 Homo sapi
1200	210.6	7.7	160705	9	HS61A9	AL035703 Human DNA
1201	210.6	7.7	160748	9	AC021241	AC021241 Homo sapi
c1202	210.6	7.7	165662	9	BS000201	BS000201 Pan trogl
c1203	210.6	7.7	167102	9	AC084017	AC084017 Homo sapi
c1204	210.6	7.7	167429	2	AC010952	AC010952 Homo sapi
c1205	210.6	7.7	170397	9	AC119677	AC119677 Homo sapi
c1206	210.6	7.7	170908	2	AC022557	AC022557 Homo sapi
1207	210.6	7.7	172105	9	AC093135	AC093135 Pan trogl
1208	210.6	7.7	173910	9	AC083982	AC083982 Homo sapi
c1209	210.6	7.7	175550	2	AC009863	AC009863 Homo sapi
c1210	210.6	7.7	176054	2	AC022377	AC022377 Homo sapi
c1211	210.6	7.7	176155	2	AC012149	AC012149 Homo sapi
1212	210.6	7.7	176155	2	AC018831	AC018831 Homo sapi
c1213	210.6	7.7	178548	9	AC018836	AC018836 Homo sapi
c1214	210.6	7.7	184716	2	AC025929	AC025929 Homo sapi
1215	210.6	7.7	185848	2	AC025929	AC025929 Homo sapi
c1216	210.6	7.7	188340	9	AC135178	AC135178 Homo sapi
1217	210.6	7.7	189821	9	AL354735	AL354735 Human DNA
c1218	210.6	7.7	191754	9	AC021016	AC021016 Homo sapi
c1219	210.6	7.7	191996	9	AC092275	AC092275 Homo sapi
1220	210.6	7.7	192664	2	AC013466	AC013466 Homo sapi
c1221	210.6	7.7	195323	2	AC026612	AC026612 Homo sapi
c1222	210.6	7.7	196044	9	AC018505	AC018505 Homo sapi
1223	210.6	7.7	196410	2	AC027544	AC027544 Homo sapi
c1224	210.6	7.7	198565	2	AC016750	AC016750 Homo sapi
1225	210.6	7.7	200655	9	AC091825	AC091825 Homo sapi
c1226	210.6	7.7	205642	9	AC016586	AC016586 Homo sapi
1227	210.6	7.7	205886	9	AC012504	AC012504 Homo sapi
1228	210.6	7.7	207283	9	AC092377	AC092377 Homo sapi
1229	210.6	7.7	207596	9	AC124916	AC124916 Homo sapi
c1230	210.6	7.7	209876	9	AC011599	AC011599 Homo sapi
c1231	210.6	7.7	211012	9	AC018843	AC018843 Homo sapi
c1232	210.6	7.7	229408	9	AC069271	AC069271 Homo sapi
1233	210.6	7.7	230000	2	AF243527	AF243527 Mus muscu
1233	210.6	7.7	241968	2	AC123609	AC123609 Mus muscu

1234	210.6	7.7 255952	2	AL513473	Homo sapi	AL513473	210.4	7.7 200587	2	AC133564	Homo sapi
1235	210.6	7.7 272170	2	AL146228	Pan trogl	AL146228	210.4	7.7 203312	2	AC140884	Homo sapi
1236	210.6	7.7 340000	2	AP001712	Homo sapi	AP001712	210.4	7.7 207746	2	AC017108	Homo sapi
1237	210.4	7.7 3848	9	BC039247	Homo sapi	BC039247	210.4	7.7 208102	2	AC139259	Homo sapi
1238	210.4	7.7 72172	9	AC010311	Homo sapi	AC010311	210.4	7.7 209645	2	AC015575	Homo sapi
1239	210.4	7.7 80869	9	HS0454N4	Homo sapi	AL096794	210.4	7.7 210589	2	AC140864	Homo sapi
1240	210.4	7.7 86437	2	AC090276	Homo sapi	AC090276	210.4	7.7 214025	9	AC007882	Homo sapi
1241	210.4	7.7 87102	2	AF205591	Homo sapi	AF205591	210.4	7.7 214110	9	AC007908	Homo sapi
1242	210.4	7.7 87280	2	AC137784 ³	Continuation (4 of	AC137784	210.4	7.7 218476	9	AC117503	Homo sapi
1243	210.4	7.7 94400	9	AC138336	Homo sapi	AC138336	210.4	7.7 218980	2	AC064828	Homo sapi
1244	210.4	7.7 100958	9	HS691N24	Homo sapi	AL031672	210.4	7.7 221054	2	AC009882	Homo sapi
1245	210.4	7.7 110000	2	AC098010	Homo sapi	AC098010	210.4	7.7 229155	9	AC018755	Homo sapi
1246	210.4	7.7 110000	2	AC137784 ²	Continuation (3 of	AC137784	210.4	7.7 234771	9	AC133536	Homo sapi
1247	210.4	7.7 110000	2	AC139486 ⁴	Continuation (5 of	AC139486	210.4	7.7 246941	2	AC145215	Homo sapi
1248	210.4	7.7 110000	2	AL928091 ⁰⁷	Continuation (8 of	AL928091	210.4	7.7 277047	2	AC137780	Homo sapi
1249	210.4	7.7 112303	9	AC093836	Homo sapi	AC093836	210.2	7.6 1180	9	BC008394	Homo sapi
1250	210.4	7.7 113764	9	HSJ651E10	Homo sapi	AL122002	210.2	7.6 1566	9	AB065926	Homo sapi
1251	210.4	7.7 114007	9	HSJ1185K9	Homo sapi	AL109807	210.2	7.6 14348	9	AC104106	Homo sapi
1252	210.4	7.7 115289	9	AC011490	Homo sapi	AC011490	210.2	7.6 44826	9	HS426N21	Human DNA
1253	210.4	7.7 124514	9	AC140878	Homo sapi	AC140878	210.2	7.6 62147	2	AC026510	Homo sapi
1254	210.4	7.7 132695	2	AC106718	Homo sapi	AC106718	210.2	7.6 63451	9	AL662886	Human DNA
1255	210.4	7.7 145428	2	AC026068	Homo sapi	AC026068	210.2	7.6 75733	9	AC118275	Homo sapi
1256	210.4	7.7 146358	9	HS3D11	Homo sapi	AL035088	210.2	7.6 87102	2	AF205591	Homo sapi
1257	210.4	7.7 147400	9	AC138927	Homo sapi	AC138927	210.2	7.6 94023	9	AC008720	Homo sapi
1258	210.4	7.7 147484	2	AL590088	Homo sapi	AL590088	210.2	7.6 101270	9	HS483K16	Human DNA
1259	210.4	7.7 148420	2	AC069266	Homo sapi	AC069266	210.2	7.6 103056	9	AC068447	Homo sapi
1260	210.4	7.7 148847	2	BS000227	Pan trogl	BS000227	210.2	7.6 110000	2	AC024562	Homo sapi
1261	210.4	7.7 149620	2	AC069397	Homo sapi	AC069397	210.2	7.6 112366	9	AL591804	Human DNA
1262	210.4	7.7 150505	9	AC009274	Homo sapi	AC009274	210.2	7.6 117746	9	BS000015	Pan trogl
1263	210.4	7.7 151696	2	AP001768	Homo sapi	AP001768	210.2	7.6 118230	9	AC104247	Homo sapi
1264	210.4	7.7 153459	2	AC022664	Homo sapi	AC022664	210.2	7.6 134773	2	AC012247	Homo sapi
1265	210.4	7.7 155842	9	AC073127	Homo sapi	AC073127	210.2	7.6 134774	9	AC023520	Homo sapi
1266	210.4	7.7 156235	2	AC140807	Homo sapi	AC140807	210.2	7.6 135734	2	AC002346	Homo sapi
1267	210.4	7.7 156705	2	AC027270	Homo sapi	AC027270	210.2	7.6 136000	9	AP003119	Homo sapi
1268	210.4	7.7 160904	2	AC093718	Homo sapi	AC093718	210.2	7.6 141497	9	AC005410	Homo sapi
1269	210.4	7.7 161340	2	AC140711	Homo sapi	AC140711	210.2	7.6 143979	2	AC125494	Homo sapi
1270	210.4	7.7 161613	2	AC023947	Homo sapi	AC023947	210.2	7.6 147009	2	AC084179	Homo sapi
1271	210.4	7.7 162041	2	AC137797	Homo sapi	AC137797	210.2	7.6 147454	9	AC027348	Homo sapi
1272	210.4	7.7 163852	2	AC060795	Homo sapi	AC060795	210.2	7.6 148845	9	HS111481	Human DNA
1273	210.4	7.7 165655	2	AC027605	Homo sapi	AC027605	210.2	7.6 152824	9	AC107072	Homo sapi
1274	210.4	7.7 167531	9	AL158832	Human DNA	AL158832	210.2	7.6 154369	9	AC004803	Homo sapi
1275	210.4	7.7 167548	9	AL391809	Human DNA	AL391809	210.2	7.6 155668	2	AC024029	Homo sapi
1276	210.4	7.7 169721	9	AC141077	Homo sapi	AC141077	210.2	7.6 156312	9	AC138470	Homo sapi
1277	210.4	7.7 171114	9	AC136613	Homo sapi	AC136613	210.2	7.6 156321	9	AC074331	Homo sapi
1278	210.4	7.7 173381	9	AC018685	Homo sapi	AC018685	210.2	7.6 156370	9	AP003717	Homo sapi
1279	210.4	7.7 173446	2	AC136608	Homo sapi	AC136608	210.2	7.6 156506	2	AC068038	Homo sapi
1280	210.4	7.7 173450	9	AC091769	Homo sapi	AC091769	210.2	7.6 157807	9	AC073573	Homo sapi
1281	210.4	7.7 174783	9	AC138924	Homo sapi	AC138924	210.2	7.6 160943	9	AC074029	Homo sapi
1282	210.4	7.7 175153	9	AL356244	Human DNA	AL356244	210.2	7.6 161776	2	AL133229	Human DNA
1283	210.4	7.7 176017	9	AP002748	Homo sapi	AP002748	210.2	7.6 165807	2	AL391810	Homo sapi
1284	210.4	7.7 177274	9	AP000424	Homo sapi	AP000424	210.2	7.6 168396	2	AL590010	Homo sapi
1285	210.4	7.7 177448	9	AC044781	Homo sapi	AC044781	210.2	7.6 169845	2	AC019054	Homo sapi
1286	210.4	7.7 177810	2	AC024161	Homo sapi	AC024161	210.2	7.6 170591	9	AC026410	Homo sapi
1287	210.4	7.7 179783	2	AC141256	Homo sapi	AC141256	210.2	7.6 171168	2	AC093540	Pan trogl
1288	210.4	7.7 183113	9	HS243E7	Human DNA	AL022323	210.2	7.6 171490	2	AC068209	Homo sapi
1289	210.4	7.7 183149	9	AC007909	Homo sapi	AC007909	210.2	7.6 171747	2	AC087678	Homo sapi
1290	210.4	7.7 183297	9	AC133485	Homo sapi	AC133485	210.2	7.6 171947	9	AC091045	Homo sapi
1291	210.4	7.7 183427	2	AC090608	Homo sapi	AC090608	210.2	7.6 172533	9	AC002381	Human BAC
1292	210.4	7.7 184267	2	AC078796	Homo sapi	AC078796	210.2	7.6 173040	9	AC012442	Homo sapi
1293	210.4	7.7 185049	2	AL365495	Human DNA	AL365495	210.2	7.6 173889	9	AC013691	Homo sapi
1294	210.4	7.7 186325	2	AC074244	Homo sapi	AC074244	210.2	7.6 174645	9	AC091111	Homo sapi
1295	210.4	7.7 186687	2	AC134943	Homo sapi	AC134943	210.2	7.6 176630	2	AC010684	Homo sapi
1296	210.4	7.7 187239	2	AC021349	Homo sapi	AC021349	210.2	7.6 176733	9	AC092850	Homo sapi
1297	210.4	7.7 189281	2	AC138944	Homo sapi	AC138944	210.2	7.6 177274	9	AP000424	Homo sapi
1298	210.4	7.7 193902	2	AL591112	Homo sapi	AL591112	210.2	7.6 179947	2	AL591853	Homo sapi
1299	210.4	7.7 194813	9	AC068999	Homo sapi	AC068999	210.2	7.6 179953	9	AC011475	Homo sapi
1300	210.4	7.7 195849	2	AL392172	Human DNA	AL392172	210.2	7.6 181175	9	AL158214	Human DNA
1301	210.4	7.7 196359	2	AC142389	Homo sapi	AC142389	210.2	7.6 181241	9	AC080128	Homo sapi
1302	210.4	7.7 196662	9	AP001107	Homo sapi	AP001107	210.2	7.6 182125	2	AC090105	Homo sapi
1303	210.4	7.7 196991	2	AC007914	Homo sapi	AC007914	210.2	7.6 182291	9	AC091114	Homo sapi
1304	210.4	7.7 199162	2	AC126563	Homo sapi	AC126563	210.2	7.6 182897	2	AL158202	Homo sapi
1305	210.4	7.7 199536	2	AC141067	Homo sapi	AC141067	210.2	7.6 185512	9	AC012454	Homo sapi
1306	210.4	7.7 199891	9	AL079303	Human chr	AL079303	210.2	7.6 185967	9	CNS01DVR	Human chr

1380	210.2	7.6 187822	9	AC015674	AC015674 Homo sapi	1453	210	7.6 159738	9	AC073352	AC073352 Homo sapi
1381	210.2	7.6 189999	9	AC092756	AC092756 Homo sapi	1454	210	7.6 160739	9	AP001092	AP001092 Homo sapi
1382	210.2	7.6 192303	9	AC034102	AC034102 Homo sapi	1455	210	7.6 161001	9	AC068775	AC068775 Homo sapi
1383	210.2	7.6 194067	2	AC146067	AC146067 Pan trogl	1456	210	7.6 162703	9	AC132802	AC132802 Homo sapi
1384	210.2	7.6 196849	9	AC100800	AC100800 Homo sapi	1457	210	7.6 163848	9	HS105613	AL031727 Human DNA
1385	210.2	7.6 196975	2	AC083848	AC083848 Homo sapi	1458	210	7.6 164132	9	AC104971	AC104971 Homo sapi
1386	210.2	7.6 197031	2	AC039121	AC039121 Homo sapi	1459	210	7.6 164452	9	CNS01RGP	AL159140 Human chr
1387	210.2	7.6 198703	2	AC144590	AC144590 Gorilla g	1460	210	7.6 164735	2	AC090475	AC090475 Homo sapi
1388	210.2	7.6 199384	9	AP003531	AP003531 Homo sapi	1461	210	7.6 165662	2	AC092070	AC092070 Homo sapi
1389	210.2	7.6 199668	9	AF252829	AF252829 Homo sapi	1462	210	7.6 166065	2	AC013552	AC013552 Homo sapi
1390	210.2	7.6 200355	2	AC019218	AC019218 Homo sapi	1463	210	7.6 168814	9	AC010237	AC010237 Homo sapi
1391	210.2	7.6 201239	9	AF060568	AF060568 Homo sapi	1464	210	7.6 168874	9	CNS01DRP	AL117692 Human chr
1392	210.2	7.6 202998	2	AC062014	AC062014 Homo sapi	1465	210	7.6 169223	2	AL353675	AL353675 Homo sapi
1393	210.2	7.6 203269	2	AC080187	AC080187 Homo sapi	1466	210	7.6 169259	9	AP006288	AP006288 Homo sapi
1394	210.2	7.6 204746	9	AC055866	AC055866 Homo sapi	1467	210	7.6 169587	9	AC109597	AC109597 Homo sapi
1395	210.2	7.6 205588	9	AC068400	AC068400 Homo sapi	1468	210	7.6 170114	9	AC044790	AC044790 Homo sapi
1396	210.2	7.6 207576	9	AC013722	AC013722 Homo sapi	1469	210	7.6 172079	9	AC1356095	AC1356095 Human DNA
1397	210.2	7.6 209317	9	AL672032	AL672032 Human DNA	1470	210	7.6 172091	2	AC139275	AC139275 Homo sapi
1398	210.2	7.6 209885	2	AC011189	AC011189 Homo sapi	1471	210	7.6 172963	9	AC134866	AC134866 Homo sapi
1399	210.2	7.6 215225	9	AP001972	AP001972 Homo sapi	1472	210	7.6 173545	9	AC008126	AC008126 Homo sapi
1400	210.2	7.6 215225	9	AC090420	AC090420 Homo sapi	1473	210	7.6 174033	2	AC021957	AC021957 Homo sapi
1401	210.2	7.6 216706	9	AC104319	AC104319 Homo sapi	1474	210	7.6 174185	2	AC116930	AC116930 Papio anu
1402	210.2	7.6 216749	9	AC083976	AC083976 Homo sapi	1475	210	7.6 175056	2	AP002368	AP002368 Homo sapi
1403	210.2	7.6 217615	2	AC008738	AC008738 Homo sapi	1476	210	7.6 175740	2	AC145033	AC145033 Homo sapi
1404	210.2	7.6 219821	9	AC009882	AC009882 Homo sapi	1477	210	7.6 176141	9	AC138783	AC138783 Homo sapi
1405	210.2	7.6 221054	2	AC008735	AC008735 Homo sapi	1478	210	7.6 176276	2	AC141255	AC141255 Homo sapi
1406	210.2	7.6 223879	9	AC008735	AC008735 Homo sapi	1479	210	7.6 176629	9	AC008641	AC008641 Homo sapi
1407	210.2	7.6 227203	2	AC011184	AC011184 Homo sapi	1480	210	7.6 176810	2	AC021777	AC021777 Homo sapi
1408	210.2	7.6 228247	2	AC146196	AC146196 Pan trogl	1481	210	7.6 178147	9	AC068195	AC068195 Homo sapi
1409	210.2	7.6 240058	9	AC110921	AC110921 Homo sapi	1482	210	7.6 178444	2	AC139284	AC139284 Homo sapi
1410	210.2	7.6 245880	2	AC079387	AC079387 Homo sapi	1483	210	7.6 179028	2	AC027046	AC027046 Homo sapi
1411	210.2	7.6 252015	9	AC008382	AC008382 Homo sapi	1484	210	7.6 179216	2	AC074016	AC074016 Homo sapi
1412	210	7.6 19874	9	D89013	D89013 Homo sapien	1485	210	7.6 179974	2	AC021704	AC021704 Homo sapi
1413	210	7.6 45544	9	AL672201	AL672201 Human DNA	1486	210	7.6 180014	9	AC139778	AC139778 Homo sapi
1414	210	7.6 54873	2	AC016083	AC016083 Homo sapi	1487	210	7.6 180171	2	AC146489	AC146489 Macaca mu
1415	210	7.6 70462	2	AC129532	AC129532 Homo sapi	1488	210	7.6 181150	9	AC007256	AC007256 Homo sapi
1416	210	7.6 96678	9	AC108104	AC108104 Homo sapi	1489	210	7.6 182301	9	AC012498	AC012498 Homo sapi
1417	210	7.6 98219	9	AC005282	AC005282 Homo sapi	1490	210	7.6 183534	2	AC139504	AC139504 Homo sapi
1418	210	7.6 99108	9	AC008666	AC008666 Homo sapi	1491	210	7.6 185427	2	AC139459	AC139459 Homo sapi
1419	210	7.6 100635	9	AC003104	AC003104 Homo sapi	1492	210	7.6 186656	9	AP001889	AP001889 Homo sapi
1420	210	7.6 103306	9	AC006597	AC006597 Homo sapi	1493	210	7.6 188049	2	AC069391	AC069391 Homo sapi
1421	210	7.6 104339	2	AF235105	AF235105 Homo sapi	1494	210	7.6 190871	9	AC044797	AC044797 Homo sapi
1422	210	7.6 104941	9	AL589663	AL589663 Human DNA	1495	210	7.6 191563	9	CNS01DXG	AL139300 Human chr
1423	210	7.6 104955	9	AC091768	AC091768 Homo sapi	1496	210	7.6 192218	9	AC005042	AC005042 Homo sapi
1424	210	7.6 105335	9	AC107374	AC107374 Homo sapi	1497	210	7.6 192863	2	AC147313	AC147313 Pan trogl
1425	210	7.6 110000	2	BX324168	Continuation of 5 of	1498	210	7.6 193774	2	AC139457	AC139457 Homo sapi
1426	210	7.6 113951	9	AC007552	AC007552 Homo sapi	1499	210	7.6 194372	2	AC139782	AC139782 Homo sapi
1427	210	7.6 115345	9	AC008147	AC008147 Homo sapi	1500	210	7.6 196972	9	AP000926	AP000926 Homo sapi
1428	210	7.6 115812	9	AC004796	AC004796 Homo sapi						
1429	210	7.6 122321	9	AC011472	AC011472 Homo sapi						
1430	210	7.6 125990	2	AC108734	AC108734 Homo sapi						
1431	210	7.6 126475	2	AC123787	AC123787 Homo sapi						
1432	210	7.6 130080	9	AP003160	AP003160 Homo sapi						
1433	210	7.6 131682	9	AL672277	AL672277 Human DNA						
1434	210	7.6 131805	9	AC008850	AC008850 Homo sapi						
1435	210	7.6 135618	2	AL359965	AL359965 Homo sapi						
1436	210	7.6 141117	9	AC016959	AC016959 Homo sapi						
1437	210	7.6 142839	9	AL356218	AL356218 Human DNA						
1438	210	7.6 145063	2	AC027069	AC027069 Homo sapi						
1439	210	7.6 145201	9	AC084854	AC084854 Homo sapi						
1440	210	7.6 147327	2	AC097455	AC097455 Homo sapi						
1441	210	7.6 147344	2	AC008907	AC008907 Homo sapi						
1442	210	7.6 147662	9	AC105024	AC105024 Homo sapi						
1443	210	7.6 148286	2	AC025374	AC025374 Homo sapi						
1444	210	7.6 153929	2	AC011883	AC011883 Homo sapi						
1445	210	7.6 154068	9	AL356292	AL356292 Human DNA						
1446	210	7.6 154189	2	AC073180	AC073180 Homo sapi						
1447	210	7.6 155306	2	AC010272	AC010272 Homo sapi						
1448	210	7.6 155344	9	AC026407	AC026407 Homo sapi						
1449	210	7.6 155470	9	AC104448	AC104448 Homo sapi						
1450	210	7.6 155974	9	AC022119	AC022119 Homo sapi						
1451	210	7.6 157385	9	AC066023	AC066023 Homo sapi						
1452	210	7.6 157686	9	BS000110	BS000110 Pan trogl						
		7.6 157978	2	AP001444	AP001444 Homo sapi						

ALIGNMENTS

RESULT 1	AR252737	2749 bp	DNA	linear	PAT 20-DEC-2002
LOCUS	Sequence 516 from patent US 6478825.				
DEFINITION	AR252737				
ACCESSION	AR252737.1	GI:27300645			
VERSION	Unknown.				
KEYWORDS	Unknown.				
ORGANISM	Unknown.				
REFERENCE	1 (bases 1 to 2749)				
AUTHORS	Winterbottom, J.M., Shimp, L., Boyce, T.M. and Kaes, D.				
TITLE	Implant, method of making same and use of the implant for the treatment of bone defects				
JOURNAL	Patent: US 6478825-A 516 12-NOV-2002;				
FEATURES	Location/Qualifiers				
source	1..2749				
	/organism="unknown"				
	/mol_type="genomic DNA"				
ORIGIN					

Query Match									
Best Local Similarity 99.9%; Score 2747; DB 6; Length 2749;									
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;									
QY	1	CTCCACGCTGTCACGCGCCAGAAATGCGGCTTCTGGTCTCTGCTATGATGGGTTGCCGTGCTG	60	QY	1021	TAGGCGCAGAGGCCCTCTCTGGCCAGGCCAGCAGTGAAGCAGTATGCTGGCTGGATCAGC	1080		
DB	1	CTCCACGCTGTCACGCGCCAGAAATGCGGCTTCTGGTCTCTGCTATGATGGGTTGCCGTGCTG	60	DB	1021	TAGGCGCAGAGGCCCTCTCTGGCCAGGCCAGCAGTGAAGCAGTATGCTGGCTGGATCAGC	1080		
QY	61	CTCCACGCTTATGAAGCCCTGAGGGCCAGAGGAAATCAGCGGTTTCGAAGGGGACACT	120	QY	1081	ACCGATTCCGAAAGCTTTCCACCTCAGGCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT	1140		
DB	61	CTCCACGCTTATGAAGCCCTGAGGGCCAGAGGAAATCAGCGGTTTCGAAGGGGACACT	120	DB	1081	ACCGATTCCGAAAGCTTTCCACCTCAGGCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT	1140		
QY	121	GTGTCCTGTCAGTGCACCTACAGGGAAGAGCTGAGGGACCAACCGGAAGTACTGGTGAGG	180	QY	1141	CTCCACACCTCTCCAGGCTCTCTCTTTCGATGTTTCCAGCCTGACCTAGAAGCGTTTGTG	1200		
DB	121	GTGTCCTGTCAGTGCACCTACAGGGAAGAGCTGAGGGACCAACCGGAAGTACTGGTGAGG	180	DB	1141	CTCCACACCTCTCCAGGCTCTCTCTTTCGATGTTTCCAGCCTGACCTAGAAGCGTTTGTG	1200		
QY	181	AAGGTTGGGATCTCTTCTCGTCTGCTGTCGCAACATCTATGCAGAAAGAGGCCAG	240	QY	1201	AGCCCTGGAGCCAGAGCGGTGGCTTGTCTTTCGCGCTGGAGACTGGGACATCCCTGAT	1260		
DB	181	AAGGTTGGGATCTCTTCTCGTCTGCTGTCGCAACATCTATGCAGAAAGAGGCCAG	240	DB	1201	AGCCCTGGAGCCAGAGCGGTGGCTTGTCTTTCGCGCTGGAGACTGGGACATCCCTGAT	1260		
QY	241	GAGACATGAAGGCGAGGCTGTCATCCGTCGTCAGCGCCAGAGCTCTCGCTCATTTGTG	300	QY	1261	AGTTTACATCTCCCTGGGAGAGTACAGGCTGCTGACCTCAGCAGGGCCAGACAAGGCT	1320		
DB	241	GAGACATGAAGGCGAGGCTGTCATCCGTCGTCAGCGCCAGAGCTCTCGCTCATTTGTG	300	DB	1261	AGTTTACATCTCCCTGGGAGAGTACAGGCTGCTGACCTCAGCAGGGCCAGACAAGGCT	1320		
QY	301	ACCCTGTGGAACCTCACCTCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG	360	QY	1321	CAGTGTGATCTGGTCTCAGTTCATCTGCCAGGAACTCTCTGGGCTCATGCCCCAGTGTG	1380		
DB	301	ACCCTGTGGAACCTCACCTCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG	360	DB	1321	CAGTGTGATCTGGTCTCAGTTCATCTGCCAGGAACTCTCTGGGCTCATGCCCCAGTGTG	1380		
QY	361	GGCCCGGATGAGTCTTACTGATCTCTCTGTTGCTTTTCCAGGACCTGCTGCTCTCC	420	QY	1381	GACCTGCTTCTCTCCCACTCCAGAGCCCACTTGTCTTCCCTCCCTGGGCTCCTCAGAC	1440		
DB	361	GGCCCGGATGAGTCTTACTGATCTCTCTGTTGGTCTTTCCAGGACCTGCTGCTCTCC	420	DB	1381	GACCTGCTTCTCTCCCACTCCAGAGCCCACTTGTCTTCCCTCCCTGGGCTCCTCAGAC	1440		
QY	421	TCCCTTCTCCACCTTCCAGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	480	QY	1441	TTAGTCCCAAGGCTCTCTGCTGCTGATGAAGAGGAGCATGCTGGGGTCGAGACTG	1500		
DB	421	TCCCTTCTCCACCTTCCAGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	480	DB	1441	TTAGTCCCAAGGCTCTCTGCTGCTGATGAAGAGGAGCATGCTGGGGTCGAGACTG	1500		
QY	481	CAGCAAACCCAGCCCGGCTGAGTTCCTCTCTGGGCTCTACCCGGGAGCCACCAAGCC	540	QY	1501	GGATTCTGGCTTCTCTTTGAAACCACTGATCCAGCCCTTCAGGAAAGCTTGTAAGAACG	1560		
DB	481	CAGCAAACCCAGCCCGGCTGAGTTCCTCTCTGGGCTCTACCCGGGAGCCACCAAGCC	540	DB	1501	GGATTCTGGCTTCTCTTTGAAACCACTGATCCAGCCCTTCAGGAAAGCTTGTAAGAACG	1560		
QY	541	AAGCAGGGGAGCAGGGGCTGAGGCTTCCATGTCAGGAGCTTCCAGTACGGGAC	600	QY	1561	TGATTCTGGGCTTCCAGAGCCCAACCAATCTCTGGGCTTGGTGCAGGACTCTGA	1620		
DB	541	AAGCAGGGGAGCAGGGGCTGAGGCTTCCATGTCAGGAGCTTCCAGTACGGGAC	600	DB	1561	TGATTCTGGGCTTCCAGAGCCCAACCAATCTCTGGGCTTGGTGCAGGACTCTGA	1620		
QY	601	GAAAGACTTTCAGTACAGGAACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	660	QY	1621	ATTCTAACATGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1680		
DB	601	GAAAGACTTTCAGTACAGGAACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	660	DB	1621	ATTCTAACATGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1680		
QY	661	AGCTCCCGCCCGGCTGAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	720	QY	1681	GCTCACAACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1740		
DB	661	AGCTCCCGCCCGGCTGAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	720	DB	1681	GCTCACAACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1740		
QY	721	AGCAGTGGCAGCTTAAAGCCAGGGTGTCCATCCGATGTCGATGTCGAGGCTGCTG	780	QY	1741	AGATCTGCTCTGCTGCGACACCAAGATCCAGTGGGGACTCCCTTGAGGCTCTGAAGTC	1800		
DB	721	AGCAGTGGCAGCTTAAAGCCAGGGTGTCCATCCGATGTCGATGTCGAGGCTGCTG	780	DB	1741	AGATCTGCTCTGCTGCGACACCAAGATCCAGTGGGGACTCCCTTGAGGCTCTGAAGTC	1800		
QY	781	CTGGTGTGCTGAGCTTCTGTCAGCCGAGGCTGATGCGCTTCTGAGGAGCACTGCTC	840	QY	1801	CAGGCTTGGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG	1860		
DB	781	CTGGTGTGCTGAGCTTCTGTCAGCCGAGGCTGATGCGCTTCTGAGGAGCACTGCTC	840	DB	1801	CAGGCTTGGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG	1860		
QY	841	CTGTGGAGAAAGGAGCTCAACAGGCCAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCT	900	QY	1861	TTGCTTTTNCATTTGCTTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1920		
DB	841	CTGTGGAGAAAGGAGCTCAACAGGCCAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCT	900	DB	1861	TTGCTTTTNCATTTGCTTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1920		
QY	901	TACAGCTTGAAGTTCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	960	QY	1921	GAAAACTTGGCTCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1980		
DB	901	TACAGCTTGAAGTTCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	960	DB	1921	GAAAACTTGGCTCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1980		
QY	961	TGATGCTTCCCTCCACATCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1020	QY	2041	GGCGGATACCTGAGAGTACTGAGAGTACTGAGAGTACTGAGAGTACTGAGAGTACTGAG	2100		
DB	961	TGATGCTTCCCTCCACATCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1020	DB	2041	GGCGGATACCTGAGAGTACTGAGAGTACTGAGAGTACTGAGAGTACTGAGAGTACTGAG	2100		
QY				QY	2101	GTAAAGTAGCACAACTACTATTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT	2160		

Db	2101																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
----	------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Best Local Similarity 100.0%; Pred. No. 0; Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
Qy	1	CTCCACGGTGTCTCAGCGCCAGAACTGCGCTTCTGCTCTCTGCTATGCGGTGCTGCTG	60
Db	1	CTCCACGGTGTCTCAGCGCCAGAACTGCGCTTCTGCTCTCTGCTATGCGGTGCTGCTG	60
Qy	61	CTCCAGGTTATGAAGCCCTGAGGGCCCAAGAGAAATCAGCGGTTTGAAGGGGACACT	120
Db	61	CTCCAGGTTATGAAGCCCTGAGGGCCCAAGAGAAATCAGCGGTTTGAAGGGGACACT	120
Qy	121	GTGTCCCTGCAAGTGCACCTACAGGGAAGAGCTAGGGAACCAACCGGAAGTACTGTCAGG	180
Db	121	GTGTCCCTGCAAGTGCACCTACAGGGAAGAGCTAGGGAACCAACCGGAAGTACTGTCAGG	180
Qy	181	AAGGTTGGGATCT	240
Db	181	AAGGTTGGGATCT	240
Qy	241	GAGACAATGAAGGGCAGGGTGTCCATCCGTTGACAGCGCCGAGGAGCTCTCGCTCATTTGTG	300
Db	241	GAGACAATGAAGGGCAGGGTGTCCATCCGTTGACAGCGCCGAGGAGCTCTCGCTCATTTGTG	300
Qy	301	ACCTGTGGAACTCACCCTGCAAGAGCTGCGGAGTACTGTTGTTGGGGTTCGAAAAACGG	360
Db	301	ACCTGTGGAACTCACCCTGCAAGAGCTGCGGAGTACTGTTGTTGGGGTTCGAAAAACGG	360
Qy	361	GGCCCCGATGAGTCTTACTGATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCC	420
Db	361	GGCCCCGATGAGTCTTACTGATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCC	420
Qy	421	TCCCTTTCTCCCACTTCCAGCCCTCTGGCTCAACACAGCTGAGCGCCCAAGGCAAAAGCT	480
Db	421	TCCCTTTCTCCCACTTCCAGCCCTCTGGCTCAACACAGCTGAGCGCCCAAGGCAAAAGCT	480
Qy	481	CAGCAAAACCCAGCCCCCAGGATTTGACTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	540
Db	481	CAGCAAAACCCAGCCCCCAGGATTTGACTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	540
Qy	541	AAGCAGGGGAAGACAGGGGCTGAGGGCTTCCATTCGCGGGGACTTCCCAAGTACGGGCAC	600
Db	541	AAGCAGGGGAAGACAGGGGCTGAGGGCTTCCATTCGCGGGGACTTCCCAAGTACGGGCAC	600
Qy	601	GAAAGGACTTCTCAGTACACAGGAACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	660
Db	601	GAAAGGACTTCTCAGTACACAGGAACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	660
Qy	661	AGTCCCGCCCCCCTATGAGCTGGAATCTCACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	720
Db	661	AGTCCCGCCCCCCTATGAGCTGGAATCTCACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	720
Qy	721	AGCAGTGGCAGCTTAAAGCCAGGGTGTCCATCCGATGTTCCGATGTTCCGATGTTCCGATG	780
Db	721	AGCAGTGGCAGCTTAAAGCCAGGGTGTCCATCCGATGTTCCGATGTTCCGATGTTCCGATG	780
Qy	781	CTGCT	840
Db	781	CTGCT	840
Qy	841	CTGTGAGAAAGGAAGTCAACAGGCAACGAGAGACACAGAGGAACGAGAAAGTTCGCTC	900
Db	841	CTGTGAGAAAGGAAGTCAACAGGCAACGAGAGACACAGAGGAACGAGAAAGTTCGCTC	900
Qy	901	TACAGCTTCT	960
Db	901	TACAGCTTCT	960
Qy	961	TGATGCT	1020
Db	961	TGATGCT	1020
Qy	1021	TAGGCGAGGAGGCT	1080

ORIGIN

Query Match	99.9%	Score 2747;	DB 6;	Length 2749;
Best Local Similarity	100.0%	Pred. No. 0;		

Sequence alignment statistics: 2749 matches, 0 mismatches, 0 indels, 0 gaps											
	Qy	Db	Qy	Db	Qy	Db	Qy	Db	Qy		
1	CTCCACGGTGTCCAGGCGCCAGAAATGCGCTTCTGTGTCCTGCTATGCGGTTCCTGCTG	60	1	CTCCACGGTGTCCAGGCGCCAGAAATGCGCTTCTGTGTCCTGCTATGCGGTTCCTGCTG	60	61	CTCCACGGTTATGAAGCCCTTGAGGGGCCAGAGGAATCAGCGGGTTCGAGGGGACACT	120	61	CTCCACGGTTATGAAGCCCTTGAGGGGCCAGAGGAATCAGCGGGTTCGAGGGGACACT	120
121	GTGTCCCTGCAGTGCACCTACAGGGAAAGAGCTGAGGGACCAACCGGAAGTACTGTGTG	180	121	GTGTCCCTGCAGTGCACCTACAGGGAAAGAGCTGAGGGACCAACCGGAAGTACTGTGTG	180	181	AAGGGTGGATTCCTTCTTCGTGCTGTCTGGCACCATCTATGCAGAAAGAAAGAGCCAG	240	181	AAGGGTGGATTCCTTCTTCGTGCTGTCTGGCACCATCTATGCAGAAAGAAAGAGCCAG	240
241	GAGACAATGAAGGCGAGGGTGCATCCGTACACGCGCCAGGAGCTCTCGCTCATTTGTG	300	241	GAGACAATGAAGGCGAGGGTGCATCCGTACACGCGCCAGGAGCTCTCGCTCATTTGTG	300	301	ACCTGTGGAAACCTCACCCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCAAAAACGG	360	301	ACCTGTGGAAACCTCACCCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCAAAAACGG	360
361	GGCCCCGATGAGTCTTTACTGATCTCTGTTCGTCTTCAGAGACCTGTGTCTCTCCC	420	361	GGCCCCGATGAGTCTTTACTGATCTCTGTTCGTCTTCAGAGACCTGTGTCTCTCCC	420	421	TCCCTTCTCCACCTTCCAGCCTCTGGCTACAAACAGCCCTGCAGCCCAAGGCCAAAAGCT	480	421	TCCCTTCTCCACCTTCCAGCCTCTGGCTACAAACAGCCCTGCAGCCCAAGGCCAAAAGCT	480
481	CAGCAAAACCCAGCCGCCAGGATTCACCTTCTCGGGCTCTACCCGGGAGCCACCAAGCC	540	481	CAGCAAAACCCAGCCGCCAGGATTCACCTTCTCGGGCTCTACCCGGGAGCCACCAAGCC	540	541	AAGCAGGGGAGACAGGGGCTGAGGCCCTCTCATTTGCCAGGACCTCCCAAGTACGGGCAC	600	541	AAGCAGGGGAGACAGGGGCTGAGGCCCTCTCATTTGCCAGGACCTCCCAAGTACGGGCAC	600
601	GAAAGGACTTCTCAGTACACAGGAACTCTCCTCACCCAGCGACCTCTCTCTCTGCAAGG	660	601	GAAAGGACTTCTCAGTACACAGGAACTCTCCTCACCCAGCGACCTCTCTCTCTGCAAGG	660	661	AGCTCCCGCCCCCATGCACTGGACTCCACCTCAGCAGAGGACACCAAGTCCAGTCTC	720	661	AGCTCCCGCCCCCATGCACTGGACTCCACCTCAGCAGAGGACACCAAGTCCAGTCTC	720
721	AGCAGTGGCAGCTCTAAGCCACAGGGTGTCCATCCCGATGGTCCGACTACTGGGCCCAAGTC	780	721	AGCAGTGGCAGCTCTAAGCCACAGGGTGTCCATCCCGATGGTCCGACTACTGGGCCCAAGTC	780	781	CTGTGCTGTGAGCCTTCTGTACAGCCGAGGCTGATTCGCTTTCTGCAGCACCTGCTC	840	781	CTGTGCTGTGAGCCTTCTGTACAGCCGAGGCTGATTCGCTTTCTGCAGCACCTGCTC	840
841	CTGTGGAAAGGAGTCTCAACGGCCACGGGACACAGAGGACGAGAGTTCCTGCTC	900	841	CTGTGGAAAGGAGTCTCAACGGCCACGGGACACAGAGGACGAGAGTTCCTGCTC	900	901	TCACGCTTGACTCGGGAGGAAAAGGAAGCCCTTCCAGGCCCTCTGAGGGGAGCTGATC	960	901	TCACGCTTGACTCGGGAGGAAAAGGAAGCCCTTCCAGGCCCTCTGAGGGGAGCTGATC	960
961	TCGATGCTCCCTTCCACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTGTCTCAGCG	1020	961	TCGATGCTCCCTTCCACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTGTCTCAGCG	1020						

Qy	1021	TAGGGCAGGAGGCCCTCTGGCCAGGCGCAGCAGTGAAGCAGTATAGCTGGCTGGATCAGC	1080
Db	1021	TAGGGCAGGAGGCCCTCTGGCCAGGCGCAGCAGTGAAGCAGTATAGCTGGCTGGATCAGC	1080
Qy	1081	ACCGATTCCCGAAGCTTTCCACCTCAGCTCAGAGTCCAGCTGCCGGACTCCAGGGCT	1140
Db	1081	ACCGATTCCCGAAGCTTTCCACCTCAGCTCAGAGTCCAGCTGCCGGACTCCAGGGCT	1140
Qy	1141	CTCCCCACCCCTCCCCAGGCTCTCCTCTTGCACTGTTCCAGCTCAGCTAGAAGCGTTTGTC	1200
Db	1141	CTCCCCACCCCTCCCCAGGCTCTCCTCTTGCACTGTTCCAGCTCAGCTAGAAGCGTTTGTC	1200
Qy	1201	AGCCCTGGAGCCACAGACGGGTGCTCTTCCTCGGCTGGAGACTGGGACATCCCTGAT	1260
Db	1201	AGCCCTGGAGCCACAGACGGGTGCTCTTCCTCGGCTGGAGACTGGGACATCCCTGAT	1260
Qy	1261	AGGTTACATCCCTGGGCAGAGTACCAGGCTGCTGACCCCTCAGCAGGGCCAGACAAGGCT	1320
Db	1261	AGGTTACATCCCTGGGCAGAGTACCAGGCTGCTGACCCCTCAGCAGGGCCAGACAAGGCT	1320
Qy	1321	CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACTCCTGGGCCCTCATGCCAGATGTGC	1380
Db	1321	CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACTCCTGGGCCCTCATGCCAGATGTGC	1380
Qy	1381	GACCCCTGCCCTTCTCCCACTCCAGACCCCACTTGTTCTCCCTCGGCGTCTCTCAGAC	1440
Db	1381	GACCCCTGCCCTTCTCCCACTCCAGACCCCACTTGTTCTCCCTCGGCGTCTCTCAGAC	1440
Qy	1441	TTAGTCCACGGTCTCCTGTGATCAGCTGTGTGATGAAGAGAGAGCATGCTGGGGTGAGACTG	1500
Db	1441	TTAGTCCACGGTCTCCTGTGATCAGCTGTGTGATGAAGAGAGAGCATGCTGGGGTGAGACTG	1500
Qy	1501	GGATTCTGGCTCTCTTTTGAAACCACTGCATCCAGCCCTTCAGGAAGCCCTGTGA AAAACG	1560
Db	1501	GGATTCTGGCTCTCTTTTGAAACCACTGCATCCAGCCCTTCAGGAAGCCCTGTGA AAAACG	1560
Qy	1561	TGATTCTGGCCCCACCAAGACCCACAAAACCATCTCTGGGCTTGCTGGAGACTCTGA	1620
Db	1561	TGATTCTGGCCCCACCAAGACCCACAAAACCATCTCTGGGCTTGCTGGAGACTCTGA	1620
Qy	1621	ATTCTAA CAATGCCAGTGA CTGTGCACTTGAGTTTGAAGGCCAGCTGGGCCCTGATGAAC	1680
Db	1621	ATTCTAA CAATGCCAGTGA CTGTGCACTTGAGTTTGAAGGCCAGCTGGGCCCTGATGAAC	1680
Qy	1681	GCTCACACCCCTTCAGCTTAGAGTCTGCATTTGGGCTGTGACGTCTCCACCTGCCCCAAAT	1740
Db	1681	GCTCACACCCCTTCAGCTTAGAGTCTGCATTTGGGCTGTGACGTCTCCACCTGCCCCAAAT	1740
Qy	1741	AGATCTGCTGTGTCGACACACAGATCCACGTGGGGACTCCCTCAGGCGCTGCTAAATC	1800
Db	1741	AGATCTGCTGTGTCGACACACAGATCCACGTGGGGACTCCCTCAGGCGCTGCTAAATC	1800
Qy	1801	CAGGCCCTTGCTCAGGTGACATTCGAGGATTAAGCCCAAGGACCGGCACAGAAAGTGG	1860
Db	1801	CAGGCCCTTGCTCAGGTGACATTCGAGGATTAAGCCCAAGGACCGGCACAGAAAGTGG	1860
Qy	1861	TTGCTCTTTCNCAATTTGCCCTCCCTGNCACATGCTTCTTGCTTGGAAAAAATGATGAA	1920
Db	1861	TTGCTCTTTCNCAATTTGCCCTCCCTGNCACATGCTTCTTGCTTGGAAAAAATGATGAA	1920
Qy	1921	GA AAACTTGGCTCTCTTGCTGCGAAAGGGTACTTGCCTATCGGTTCTGGTGGCTA	1980
Db	1921	GA AAACTTGGCTCTCTTGCTGCGAAAGGGTACTTGCCTATCGGTTCTGGTGGCTA	1980
Qy	1981	GAGAGAAAAAGTAGAAAAACAGAGTGACGCTAGGTGTCTAAACAAGAGGAGGTAGGAACA	2040
Db	1981	GAGAGAAAAAGTAGAAAAACAGAGTGACGCTAGGTGTCTAAACAAGAGGAGGTAGGAACA	2040
Qy	2041	GGGCGGATACCTGAAGGTGACTCCGAGTCCAGCCCTCGAGAGAGGGGTGGGGTGGTG	2100
Db	2041	GGGCGGATACCTGAAGGTGACTCCGAGTCCAGCCCTCGAGAGAGGGGTGGGGTGGTG	2100

```
QY 2101 GTAAGTAGCACTACTATTTTCTTTTCCATTATTTGTTTTTAAGACAGA 2160
Db 2101 GTAAGTAGCACTACTATTTTCTTTTCCATTATTTGTTTTTAAGACAGA 2160
QY 2161 ATCTGCTGCTGCCAGGCTGGAGTGCAGTGGCAGATCTGCAAACTCCGCTCTGG 2220
Db 2161 ATCTGCTGCTGCCAGGCTGGAGTGCAGTGGCAGATCTGCAAACTCCGCTCTGG 2220
QY 2221 GTTCAAGTAGTCTCTGCTCAGCTCCGAGTGCAGTGGATTCAGAGCAGCCACACC 2280
Db 2221 GTTCAAGTAGTCTCTGCTCAGCTCCGAGTGCAGTGGATTCAGAGCAGCCACACC 2280
QY 2281 ACACCTGGCTAAATTTTGTACTTTTAGTAGAGATGGGGTTTACCATGTTGGCAGGCTG 2340
Db 2281 ACACCTGGCTAAATTTTGTACTTTTAGTAGAGATGGGGTTTACCATGTTGGCAGGCTG 2340
QY 2341 GTCTTGAACCTCTGACCTCAATGAGCTCCTGCTCAGTCTCCCAATTTGCCGGGATTA 2400
Db 2341 GTCTTGAACCTCTGACCTCAATGAGCTCCTGCTCAGTCTCCCAATTTGCCGGGATTA 2400
QY 2401 CAGGCTAGGCCACTGTGCTGCGCTTATTTCTTTAAAGATGAATTAAGAGTTGTTTC 2460
Db 2401 CAGGCTAGGCCACTGTGCTGCGCTTATTTCTTTAAAGATGAATTAAGAGTTGTTTC 2460
QY 2461 AGTATGCAAACTTGGAAAGATGGAGAGAAAAGAAAGAAAGAAAATGTCAACCA 2520
Db 2461 AGTATGCAAACTTGGAAAGATGGAGAGAAAAGAAAGAAAGAAAATGTCAACCA 2520
QY 2521 TAGTCTCAGCAGAGATCATATTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 2580
Db 2521 TAGTCTCAGCAGAGATCATATTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 2580
QY 2581 TTACATAATTTCCGGTGTCTTTTACAGAGCAATATCTTGATATACAACTTTGTA 2640
Db 2581 TTACATAATTTCCGGTGTCTTTTACAGAGCAATATCTTGATATACAACTTTGTA 2640
QY 2641 TCCTGCTTTTCCACCTTATGTTTCCATCATCTTTATTTCCAGCACTTCTCTGTGTTTACA 2700
Db 2641 TCCTGCTTTTCCACCTTATGTTTCCATCATCTTTATTTCCAGCACTTCTCTGTGTTTACA 2700
QY 2701 GACCTTTTATAATAAATGTTTCATCAGCTGCATGATATAAAAAA 2749
Db 2701 GACCTTTTATAATAAATGTTTCATCAGCTGCATGATATAAAAAA 2749

RESULT 4
AX464252 2749 bp DNA linear PAT 16-JUL-2002
LOCUS Sequence 385 from Patent WO0140466.
DEFINITION AX464252
ACCESSION AX464252
VERSION AX464252.1 GI:21899142
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1. Baker, K.P., Beresini, M., Deforge, L., Desnoyers, L., Filvaroff, E.,
Gao, W.Q., Gerritsen, M.E., Goddard, A., Godowski, P.J., Gurney, A.L.,
Sherwood, S., Smith, V., Stewart, T.A., Tumas, D., Watanabe, C.K.,
Wood, W.L. and Zhang, Z.
Wood, W.L. and Zhang, Z.
TITLE Secreted and transmembrane polypeptides and nucleic acids encoding
same
JOURNAL Patent: WO 0140466-A 385 07-JUN-2001;
Genentech Inc. (US)
FEATURES
source 1. .2749
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
ORIGIN
Query Match 99.9%; Score 2747; DB 6; Length 2749;
```

```
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CTCCTCAGGTTGTCAGGCGCCAGAAATGCGCTTCTGCTCTGCTATGAGGGGTGCTGCTG 60
Db 1 CTCCTCAGGTTGTCAGGCGCCAGAAATGCGCTTCTGCTCTGCTATGAGGGGTGCTGCTG 60
QY 61 CTCCTCAGGTTATGAAGCCCTTGAGGGCCCGAGAGAAATCAGCGGGTTTGAAGGGGACACT 120
Db 61 CTCCTCAGGTTATGAAGCCCTTGAGGGCCCGAGAGAAATCAGCGGGTTTGAAGGGGACACT 120
QY 121 GTGTCCTGCAAGTGCACCTTACAGGGAAGAGCTGAGGGAACACCGGAAGTACTGCTGAGG 180
Db 121 GTGTCCTGCAAGTGCACCTTACAGGGAAGAGCTGAGGGAACACCGGAAGTACTGCTGAGG 180
QY 181 AAGGTTGGGATCCTCTTCTCTGCTCTGCTGCGACCATCTATGCAGAGAAGAAAGGCCAG 240
Db 181 AAGGTTGGGATCCTCTTCTCTGCTCTGCTGCGACCATCTATGCAGAGAAGAAAGGCCAG 240
QY 241 GAGACAATGAAGGGCAGGGGTGTCCATCCGTGACAGCGCCGAGGAGCTCTCGCTCATTTG 300
Db 241 GAGACAATGAAGGGCAGGGGTGTCCATCCGTGACAGCGCCGAGGAGCTCTCGCTCATTTG 300
QY 301 ACCCTGTGAAACCTCAACCTGCAAGAGCTGAGGAGTACTGTTGTTGGGGTTCGAAAAACGG 360
Db 301 ACCCTGTGAAACCTCAACCTGCAAGAGCTGAGGAGTACTGTTGTTGGGGTTCGAAAAACGG 360
QY 361 GGCCCGATGAGTCTTACTGATCTCTGTTGCTCTTTCCAGGACCTCTGCTCTCTCCC 420
Db 361 GGCCCGATGAGTCTTACTGATCTCTGTTGCTCTTTCCAGGACCTCTGCTCTCTCCC 420
QY 421 TCCTCTTCTCCACCTTCCAGCCTCTGGGTCTAACACAGCGCTGAGCGCCCAAGGCAAAAGCT 480
Db 421 TCCTCTTCTCCACCTTCCAGCCTCTGGGTCTAACACAGCGCTGAGCGCCCAAGGCAAAAGCT 480
QY 481 CAGCAAAACCCAGCCCCCAGATTGACTTCTCTGTTGGGTCTTACCCGGAGGCCACACAGCC 540
Db 481 CAGCAAAACCCAGCCCCCAGATTGACTTCTCTGTTGGGTCTTACCCGGAGGCCACACAGCC 540
QY 541 AAGCAGGGGAAGACAGGGGCTGAGGGCCCTCCATTCGCGAGGACTTCCCAAGTAGCGGAC 600
Db 541 AAGCAGGGGAAGACAGGGGCTGAGGGCCCTCCATTCGCGAGGACTTCCCAAGTAGCGGAC 600
QY 601 GAAAGGACTTCTCAGTACACAGGAACTCTCTCACCAGCGACCTCTCTCTCTGCGAGGG 660
Db 601 GAAAGGACTTCTCAGTACACAGGAACTCTCTCACCAGCGACCTCTCTCTCTGCGAGGG 660
QY 661 AGCTCCGCGCCCCCATGAGCTGAGTGCACCTCTCAGCGAGGAGACACAGTCCAGTCTC 720
Db 661 AGCTCCGCGCCCCCATGAGCTGAGTGCACCTCTCAGCGAGGAGACACAGTCCAGTCTC 720
QY 721 AGCAGTGGCAGCTCTAAGCCCAAGGTGTCATCCGATGTTCCGATACCTGTCGCCCCAGTC 780
Db 721 AGCAGTGGCAGCTCTAAGCCCAAGGTGTCATCCGATGTTCCGATACCTGTCGCCCCAGTC 780
QY 781 CTGCTGCTGTCAGCCTTCTGTCAGCGCGAGGCTGATCGCCTTCTGCGAGCCACTGCTC 840
Db 781 CTGCTGCTGTCAGCCTTCTGTCAGCGCGAGGCTGATCGCCTTCTGCGAGCCACTGCTC 840
QY 841 CTGTGAGAAAGAAAGTCTCAACAGGCAACGAGAGACACAGAGGAACGAGAAAGTTCTGGCTC 900
Db 841 CTGTGAGAAAGAAAGTCTCAACAGGCAACGAGAGACACAGAGGAACGAGAAAGTTCTGGCTC 900
QY 901 TCACGCTTGAATGCGGGAAGAAAGGAGCCCTTCCAGGCCCTCTGAGGGGAGCTGATC 960
Db 901 TCACGCTTGAATGCGGGAAGAAAGGAGCCCTTCCAGGCCCTCTGAGGGGAGCTGATC 960
QY 961 TCGATGCTCTCCCTCCACACATCTGAGGAGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
Db 961 TCGATGCTCTCCCTCCACACATCTGAGGAGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
QY 1021 TAGGCGAGGAGGCCCTCTCTGCGCAGGCGACAGTGAAGAGTATGGCTGGCTGGATCAGC 1080
Db 1021 TAGGCGAGGAGGCCCTCTCTGCGCAGGCGACAGTGAAGAGTATGGCTGGCTGGATCAGC 1080
```


QY 1 CTCCACGGTGTCCAGCGCCAGAAATGCGGCTTCTGGTCTGCTATGCGGTTGCGCTGCTG 60
DB |||||
1 CTCCACGGTGTCCAGCGCCAGAAATGCGGCTTCTGGTCTGCTATGCGGTTGCGCTGCTG 60
QY |||||
61 CTCCACGGTTATGAAGCCCTGAGGCGCCAGAGAAATAGCGGGTTGGAAGGGGACACT 120
DB |||||
61 CTCCACGGTTATGAAGCCCTGAGGCGCCAGAGAAATAGCGGGTTGGAAGGGGACACT 120
QY |||||
121 GTGTCCCTGCAAGTGCACCTACAGGAGAGAGCTGAGGGACCAACGGAGTACTGCTGCGAG 180
DB |||||
121 GTGTCCCTGCAAGTGCACCTACAGGAGAGAGCTGAGGGACCAACGGAGTACTGCTGCGAG 180
QY |||||
181 AAGGTGGGATCCTCTCTCTCTGCTCTGCGCTCTGCGACCAATATGACAGAAAGAGGCGCAG 240
DB |||||
181 AAGGTGGGATCCTCTCTCTCTGCTCTGCGCTCTGCGACCAATATGACAGAAAGAGGCGCAG 240
QY |||||
241 GAGACAATGAAGGCGCAGGGTGTCCATCCGTGACAGCGCCAGGAGCTCTCGCTCATTTGTG 300
DB |||||
301 ACCCTGTGGAACTCACCCTGCAAGAGCTGGGAGTACTGCTGTGGGGTCGAAAAACGG 360
DB |||||
301 ACCCTGTGGAACTCACCCTGCAAGAGCTGGGAGTACTGCTGTGGGGTCGAAAAACGG 360
QY |||||
361 GGCCCGATGAGTCTTTACTGATCTCTCTGCTCTGCTCTTTCCAGGACCCCTGCTCTCTCCC 420
DB |||||
361 GGCCCGATGAGTCTTTACTGATCTCTCTGCTCTGCTCTTTCCAGGACCCCTGCTCTCTCCC 420
QY |||||
421 TCCCTCTTCTCCACCTTCCAGCCTCTGGCTTACACAGCGCTGACGCCCAAGGCAAAAGCT 480
DB |||||
421 TCCCTCTTCTCCACCTTCCAGCCTCTGGCTTACACAGCGCTGACGCCCAAGGCAAAAGCT 480
QY |||||
481 CAGCAACCCAGCCCCAGGAATGACTTCTCTGCGCTTACCGGAGCCACACAGCC 540
DB |||||
481 CAGCAACCCAGCCCCAGGAATGACTTCTCTGCGCTTACCGGAGCCACACAGCC 540
QY |||||
541 AAGCAGGGGAAGACAGGGGCTGAGGCCCTCCATTTGCCAGGGACTTCCAGTAGTGGGAC 600
DB |||||
541 AAGCAGGGGAAGACAGGGGCTGAGGCCCTCCATTTGCCAGGGACTTCCAGTAGTGGGAC 600
QY |||||
601 GAAAGGACTTCTCAGTACACAGGAACCTTCTCTCACCCAGCGACCTTCTCTCTGCAAGGG 660
DB |||||
601 GAAAGGACTTCTCAGTACACAGGAACCTTCTCTCACCCAGCGACCTTCTCTCTGCAAGGG 660
QY |||||
661 AGCTCCGCCCCCCTACGCTGAGTCCACCTCAGCAGAGACACACAGTCCAGTCTCTC 720
DB |||||
661 AGCTCCGCCCCCCTACGCTGAGTCCACCTCAGCAGAGACACACAGTCCAGTCTCTC 720
QY |||||
721 AGCAGTGGCAGCTTAAGCCAGGGTGTCCATCCCGATGCTCCGCACTACTGGCCCCAGTC 780
DB |||||
721 AGCAGTGGCAGCTTAAGCCAGGGTGTCCATCCCGATGCTCCGCACTACTGGCCCCAGTC 780
QY |||||
781 CTGGTGTCTGAGCCTTCTGTGAGCCGCGAGGCTGATGCCCTTCTGACGCCACCTGCTC 840
DB |||||
781 CTGGTGTCTGAGCCTTCTGTGAGCCGCGAGGCTGATGCCCTTCTGACGCCACCTGCTC 840
QY |||||
841 CTGTGGAAAGGAAGCTCAACAGGCCACGAGACACAGAGGAACGGAAGTTCTGGCTC 900
DB |||||
841 CTGTGGAAAGGAAGCTCAACAGGCCACGAGACACAGAGGAACGGAAGTTCTGGCTC 900
QY |||||
901 TCACGCTTGTGCTGCGAGGAAGGAAGCCCTTCCAGGCCCTGAGGGGGAGCTGATC 960
DB |||||
901 TCACGCTTGTGCTGCGAGGAAGGAAGCCCTTCCAGGCCCTGAGGGGGAGCTGATC 960
QY |||||
961 TCGATGCTCCCTTCCACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
DB |||||
961 TCGATGCTCCCTTCCACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
QY |||||
1021 TAGGGCAGGAGGCCCTCTCTGGCCAGGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080
DB |||||
1021 TAGGGCAGGAGGCCCTCTCTGGCCAGGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080
QY |||||
1081 ACCGATTTCCGAAAGCTTTTCCACCTCAGCCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT 1140

DB |||||
1081 ACCGATTTCCGAAAGCTTTTCCACCTCAGCCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT 1140
QY |||||
1141 CTCCACACCTTCCAGGCTCTCTTGCATGTTTCCAGGCTGACCTAGAGGTTTGTGTC 1200
DB |||||
1141 CTCCACACCTTCCAGGCTCTCTTGCATGTTTCCAGGCTGACCTAGAGGTTTGTGTC 1200
QY |||||
1201 AGCCCTGGAGCCACAGACGGGTGGCTTGTCTTCCGGCTGGAGACTGGGACATCCCTGAT 1260
DB |||||
1201 AGCCCTGGAGCCACAGACGGGTGGCTTGTCTTCCGGCTGGAGACTGGGACATCCCTGAT 1260
QY |||||
1261 AGGTTTCAATCTCCCTGGGCAAGTACAGGCTGCTGACCCCTCAGCAGGGCCAGACAAGGCT 1320
DB |||||
1261 AGGTTTCAATCTCCCTGGGCAAGTACAGGCTGCTGACCCCTCAGCAGGGCCAGACAAGGCT 1320
QY |||||
1321 CAGTGATCTGCTGCTGAGTTTCAATCTGCCAGAACTCTCGGGCTCATGCCCCAGTGTG 1380
DB |||||
1321 CAGTGATCTGCTGCTGAGTTTCAATCTGCCAGAACTCTCGGGCTCATGCCCCAGTGTG 1380
QY |||||
1381 GACCTTGCCTTCTCCACTCCAGACCCACACTTGTCTTCCCTCCCTGGGCTCTCTAGAC 1440
DB |||||
1381 GACCTTGCCTTCTCCACTCCAGACCCACACTTGTCTTCCCTCCCTGGGCTCTCTAGAC 1440
QY |||||
1441 TTAGTCCCACGGTCTCTCTGATCAGCTGGTGTGATGAAGAGAGCATGCTGGGGTGAAGTG 1500
DB |||||
1441 TTAGTCCCACGGTCTCTCTGATCAGCTGGTGTGATGAAGAGAGCATGCTGGGGTGAAGTG 1500
QY |||||
1501 GGATTCCTGGCTTCTTTGAAACCACTGCATCCAGCCCTCAGAGAGCCCTGTGAAAAACG 1560
DB |||||
1501 GGATTCCTGGCTTCTTTGAAACCACTGCATCCAGCCCTTCAAGAGCCCTGTGAAAAACG 1560
QY |||||
1561 TGAATTCCTGGCCCCACAAAGACCCACAAACCATCTCTGGGCTTGGTGACGACTCTGA 1620
DB |||||
1561 TGAATTCCTGGCCCCACAAAGACCCACAAACCATCTCTGGGCTTGGTGACGACTCTGA 1620
QY |||||
1621 ATTCTAACAAATGCCCCAGTGACTGTGCACTTGAAGTTTGAAGGCGAGTGGGCTTGATGAAC 1680
DB |||||
1621 ATTCTAACAAATGCCCCAGTGACTGTGCACTTGAAGTTTGAAGGCGAGTGGGCTTGATGAAC 1680
QY |||||
1681 GCTCACACCCCTTACGTTAGAGTCTGCATTTGGGCTGTGACGCTCCACCTGCCCCCAAT 1740
DB |||||
1681 GCTCACACCCCTTACGTTAGAGTCTGCATTTGGGCTGTGACGCTCCACCTGCCCCCAAT 1740
QY |||||
1741 AGATCTGCTCTGTCTGCGACACAGATCCAGTGGGACTCCCTCAGGGCTGCTAAGTC 1800
DB |||||
1741 AGATCTGCTCTGTCTGCGACACAGATCCAGTGGGACTCCCTCAGGGCTGCTAAGTC 1800
QY |||||
1801 CAGGCCCTTGGTCAAGTGCATTCAGGATTAAGCCAGGACCGGACAGAGTGG 1860
DB |||||
1801 CAGGCCCTTGGTCAAGTGCATTCAGGATTAAGCCAGGACCGGACAGAGTGG 1860
QY |||||
1861 TTGCCCTTTCACATTTGCCCTCCCTGNCATGCTTCTTGGCTTTGGAAAAAATGATGA 1920
DB |||||
1861 TTGCCCTTTCACATTTGCCCTCCCTGNCATGCTTCTTGGCTTTGGAAAAAATGATGA 1920
QY |||||
1921 GAAAACTTGGCTCTCTTCTGTCTGAAAGGGTTACTTTCCTATGCGTCTGCTGGCTA 1980
DB |||||
1921 GAAAACTTGGCTCTCTTCTGTCTGAAAGGGTTACTTTCCTATGCGTCTGCTGGCTA 1980
QY |||||
1981 GAGAGAAAAAGTAGAAAAACCAAGTGCACGTAAGTGTCTAAACAGAGGAGAGTAGGAACA 2040
DB |||||
1981 GAGAGAAAAAGTAGAAAAACCAAGTGCACGTAAGTGTCTAAACAGAGGAGAGTAGGAACA 2040
QY |||||
2041 GGGCGGATACCTGAAGGTGATCCGAGTCCAGCCCCCTGGAGAGGGGTGCGGGGTGTG 2100
DB |||||
2041 GGGCGGATACCTGAAGGTGATCCGAGTCCAGCCCCCTGGAGAGGGGTGCGGGGTGTG 2100
QY |||||
2101 GTAAAGTAGCACAACCTACTATTTTTTTTCTTTTCCATTTATTTTGTATTTTAAAGACAG 2160
DB |||||
2101 GTAAAGTAGCACAACCTACTATTTTTTTTCTTTTCCATTTATTTTGTATTTTAAAGACAG 2160
QY |||||
2161 ATCTCGTGTGCTGCCACAGGCTGAGTGCAGTGGCAGATCTGCAGAACTCCGCTCTCTGG 2220

	Db		AGCAGTGGCAGCTCTAAAGCCAGGGTGTCCATCCGATGGTCCGCAATACCTGGCCCCAGTC	780
721	Qy	CTGGTGTCTGTAGCCTTCTCTCAGCCGCGCAGGCTGTATCGCTTCTCTCAGCACCTGTCTC	840	
781	Db	CTGGTGTCTGTAGCCTTCTGTCAAGCCGCGAGGCTGTATCGCTTCTCTCAGCACCTGTCTC	840	
841	Qy	CTGTGGAGAAAGGAAGCTCAACAGGCCACGGAGACACAGAGGAACGAGAAAGTTCTGGCTC	900	
841	Db	CTGTGGAGAAAGGAAGCTCAACAGGCCACGGAGACACAGAGGAACGAGAAAGTTCTGGCTC	900	
901	Qy	TCAAGCTTGACTGCGGAGGAAAGAAAGCCCTTCCAGGCCCTTGAGGGGAGCGTATC	960	
901	Db	TCAAGCTTGACTGCGGAGGAAAGAAAGCCCTTCCAGGCCCTTGAGGGGAGCGTATC	960	
961	Qy	TCGATGCTCCCTTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCACGC	1020	
961	Db	TCGATGCTCCCTTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCACGC	1020	
1021	Qy	TAGGGCAGGAGGCCCTCTGGCCAGGGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC	1080	
1021	Db	TAGGGCAGGAGGCCCTCTGGCCAGGGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC	1080	
1081	Qy	ACCGATTCCCGAAAAGCTTTCACCTCAGCCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT	1140	
1081	Db	ACCGATTCCCGAAAAGCTTTCACCTCAGCCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT	1140	
1141	Qy	CTCCGCCACCTCCCCAGGCTCTCCTCTTGCAATGTTCCAGCTGACCTAGAGAGGTTTGTC	1200	
1141	Db	CTCCGCCACCTCCCCAGGCTCTCCTCTTGCAATGTTCCAGCTGACCTAGAGAGGTTTGTC	1200	
1201	Qy	AGCCTTGAGCCACAGAGCGGTGGCTTTGCTCTTCCGGCTGGAGACTGGGACATCCCTGAT	1260	
1201	Db	AGCCTTGAGCCACAGAGCGGTGGCTTTGCTCTTCCGGCTGGAGACTGGGACATCCCTGAT	1260	
1261	Qy	AGGTTACATCCCTGGGAGAGTACAGGCTGTGACCCCTCAGCAGGGCCAGACAAGGCT	1320	
1261	Db	AGGTTACATCCCTGGGAGAGTACAGGCTGTGACCCCTCAGCAGGGCCAGACAAGGCT	1320	
1321	Qy	CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACCTCTGGGCTCATGCCAGTGTG	1380	
1321	Db	CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACCTCTGGGCTCATGCCAGTGTG	1380	
1381	Qy	GACCTGTGCTTCTCCCACTCCAGACCCACCTTGTCTTCCCTCCCTGGGCTCTCAGAC	1440	
1381	Db	GACCTGTGCTTCTCCCACTCCAGACCCACCTTGTCTTCCCTCCCTGGGCTCTCAGAC	1440	
1441	Qy	TTAGTCCACCGGTCTCTTGCAATCAGCTGGTGATGAAGAGGAGCANTGTGGGGTGAGACTG	1500	
1441	Db	TTAGTCCACCGGTCTCTTGCAATCAGCTGGTGATGAAGAGGAGCANTGTGGGGTGAGACTG	1500	
1501	Qy	GGATTCTGGCTCTCTTTGAACCACTGTGCATCAGGCCCTTCAGGAAGCCTGTGAAAAACG	1560	
1501	Db	GGATTCTGGCTCTCTTTGAACCACTGTGCATCAGGCCCTTCAGGAAGCCTGTGAAAAACG	1560	
1561	Qy	TGATTCTGGGCCACCAAGACCCACAAAAACCACTCTCTGGGCTTGTGAGGACTCTGA	1620	
1561	Db	TGATTCTGGGCCACCAAGACCCACAAAAACCACTCTCTGGGCTTGTGAGGACTCTGA	1620	
1621	Qy	ATTCTAACAAATGCCAGTGA CTGTGCACTTGTAGTTTGAAGGCCAGTGGGCTGATGAAC	1680	
1621	Db	ATTCTAACAAATGCCAGTGA CTGTGCACTTGTAGTTTGAAGGCCAGTGGGCTGATGAAC	1680	
1681	Qy	GCTACACCCCTTCAAGCTTAGAGTTTGGGCTGTGAGCTCTCCACTGGCCCCAAT	1740	
1681	Db	GCTACACCCCTTCAAGCTTAGAGTTTGGGCTGTGAGCTCTCCACTGGCCCCAAT	1740	
1741	Qy	AGATCTGCTCTGTCTGCGACACCAAGATCCAGTGGGACTCCCTCTGAGGCTGTAAATC	1800	
1741	Db	AGATCTGCTCTGTCTGCGACACCAAGATCCAGTGGGACTCCCTCTGAGGCTGTAAATC	1800	
1801	Qy	CAGGCCTTGGTCAGGTCAGGTCATTTGCAGGATAAGCCAGGACCGGACAGAAATGG	1860	

Db	1801	CAGGCCTTGGTCAGGTGACATTTGAGAGTAAGCCACGACCGGCACAGAGTGG	1861
Qy	1861	TTGCTTTTNCACATTTGGCCCTCCCTGGNCCATGCTCTTTGCTCTTTGAAAAAATGATGAA	1920
Db	1861	TTGCTTTTNCACATTTGGCCCTCCCTGGNCCATGCTCTTTGCTCTTTGAAAAAATGATGAA	1920
Qy	1921	GAAAACTTGGCTCTCTTCTTGTTCTGAAAGGGTTACTTGCCTATGGGTTCTGGTGGCTA	1980
Db	1921	GAAAACTTGGCTCTCTTCTTGTTCTGAAAGGGTTACTTGCCTATGGGTTCTGGTGGCTA	1980
Qy	1981	GAGGAAAACTGAGAAACACAGATGTCAGCTAGGTGCTAAACACAGAGGAGAGTAGGAACA	2040
Db	1981	GAGGAAAACTGAGAAACACAGATGTCAGCTAGGTGCTAAACACAGAGGAGAGTAGGAACA	2040
Qy	2041	GGGCGGATACCTGAAAGTGACTCCGAGTCCAGGCCCTCGAGAGAGGGGTCCGGGGTGGTG	2100
Db	2041	GGGCGGATACCTGAAAGTGACTCCGAGTCCAGGCCCTCGAGAGAGGGGTCCGGGGTGGTG	2100
Qy	2101	GTAAGTAGCACAACTACTATTTTTTTTCTTTTCCATTAATATGTTTTTAAAGACAGA	2160
Db	2101	GTAAGTAGCACAACTACTATTTTTTTTCTTTTCCATTAATATGTTTTTAAAGACAGA	2160
Qy	2161	ATCTCGTGTCTGCCAGGCTGGAGTGCAGTGGCAGATCTGCAAACTCCGGCTCCTCGG	2220
Db	2161	ATCTCGTGTCTGCCAGGCTGGAGTGCAGTGGCAGATCTGCAAACTCCGGCTCCTCGG	2220
Qy	2221	GTTCAAGTGATCTTCTGCTCCAGCTCCCGAGTAGCTGGGATTTACAGGCACGCACCAACC	2280
Db	2221	GTTCAAGTGATCTTCTGCTCCAGCTCCCGAGTAGCTGGGATTTACAGGCACGCACCAACC	2280
Qy	2281	ACACTGGCTAAATTTTGTACTTTTAGTAGAGATGGGGTTTCCACCATGTTGGCCAGGCTG	2340
Db	2281	ACACTGGCTAAATTTTGTACTTTTAGTAGAGATGGGGTTTCCACCATGTTGGCCAGGCTG	2340
Qy	2341	GTCTTGAACTCTCGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTCGCGGGATTA	2400
Db	2341	GTCTTGAACTCTCGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTCGCGGGATTA	2400
Qy	2401	CAGGCATGAGCCACTGTGTCTGGCCCTATTTCTTTAAAAAGTGAATTAAGAGTTGTTTC	2460
Db	2401	CAGGCATGAGCCACTGTGTCTGGCCCTATTTCTTTAAAAAGTGAATTAAGAGTTGTTTC	2460
Qy	2461	AGTATGCAAACTTGGAAAGATGGAGAGAAAAAGAAAGAGAAAGAAAAATGTCACCCA	2520
Db	2461	AGTATGCAAACTTGGAAAGATGGAGAGAAAAAGAAAGAGAAAGAAAAATGTCACCCA	2520
Qy	2521	TAGTCTCACCAGAGACTATCATTTATTTGTTTGTGTACTCTCTTCCACTCTTTTCTTC	2580
Db	2521	TAGTCTCACCAGAGACTATCATTTATTTGTTTGTGTACTCTCTTCCACTCTTTTCTTC	2580
Qy	2581	TTACATAATTTGGCGGTGTTCTTTTACAGAGCAATATCTTGTAATATACAACTTTGTA	2640
Db	2581	TTACATAATTTGGCGGTGTTCTTTTACAGAGCAATATCTTGTAATATACAACTTTGTA	2640
Qy	2641	TCCTGCTCTTTCCACTTATCGTTTCCATCACTTTATTTCCAGCACTTCTCTGTTTTTACA	2700
Db	2641	TCCTGCTCTTTCCACTTATCGTTTCCATCACTTTATTTCCAGCACTTCTCTGTTTTTACA	2700
Qy	2701	GACCTTTTATAAATAAATGTTTCATCAGCTGCATTAATAAAAAAAAAAAAAA	2749
Db	2701	GACCTTTTATAAATAAATGTTTCATCAGCTGCATTAATAAAAAAAAAAAAAA	2749
RESULT 7			
BC025395			
LOCUS			
DEFINITION	BC025395	2771 bp	mRNA
Homo sapiens similar to CMRF35 antigen precursor (CMRF-35), mRNA			
(cDNA clone MGC:26887 IMAGE:4827737), complete cds.			
ACCESSION	BC025395		
VERSION	BC025395.2	GI:34783340	
KEYWORDS	MGC.		
SOURCE	Homo sapiens		
ORGANISM	Homo sapiens		

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
AUTHORS

1 (bases 1 to 2771)
Strausberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G., Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D., Altschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K., Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Heien, F., Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L., Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L., Schetz, T.E., Brownstein, M.J., Usdin, T.B., Toshiyuki, S., Carninci, P., Prange, C., Raha, S., Loquellano, N.A., Peters, G.J., Abramson, R.D., Mullany, S.J., Bosak, S.A., McEwan, P.J., McKernan, R.J., Malek, J.A., Gunaratne, P.H., Richards, S., Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W., Villalón, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A., Sanchez, J., Helton, E., Kettman, M., Madan, A., Rodriguez, S., Fahney, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y., Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D., Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M., Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Smal, D.E., Scherz, A., Schein, J.E., Jones, S.J., and Marra, M.A.

Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences

Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)

22388257

12477932

2 (bases 1 to 2771)

Strausberg, R.

Direct Submission

Submitted (05-MAR-2002) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA

NTH-MGC Project URL: <http://mgc.nci.nih.gov>

On Sep 16, 2003 this sequence version replaced gi:19263986.

Contact: MGC help desk

Email: cgabs-x@mail.nih.gov

Tissue Procurement: Miklos Palkovits, M.D., Ph.D.

cDNA Library Preparation: Michael J. Brownstein (NHGRI) & Shiraki

Toshiyuki and Piero Carninci (RIKEN)

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILLNL)

DNA Sequencing by: Institute for Systems Biology

<http://www.systemsbio.org>

contact: amadnan@systemsbio.org

Anup Madan, Jessica Fahney, Erin Helton, Mark Kettelman, Anuradha

Madan, Stephanie Rodriguez, Amy Sanchez and Michelle Whiting

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/ILLNL at: <http://image.llnl.gov>

Series: IRAC Plate: 34 Row: c Column: 4

This clone was selected for full length sequencing because it

passed the following selection criteria: matched mRNA gi: 21687217.

FEATURES
source

Location/Qualifiers
1..2771
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clones="MGC:26887 IMAGE:4827737"
/issue_type="Testis"
/clone_lib="NIH MGC_97"
/lab_host="DH10B"
/note="vector: pbluescript"
1..2771
/gene="LOC146894"
/db_xref="LocusID:146894"
42..1040
/codon_start=1
/product="similar to CMRF35 antigen precursor (CMRF-35)"
/protein_id="AAH25395.1"
/db_xref="GI:19263987"
/db_xref="LocusID:146894"
/translation="MRLLVLLWGCLLPVGEALGEPFISFGEDTVSLQTYREELR
DHRKYCRKGGILFSCSGTIYAEERQETMKGRVSRIDSRQELSLIVTLWNLTQDA

gene

CDS

misc_feature
/notes="IG; Region: Immunoglobulin"
/db_xref="CDD:smart00409"

ORIGIN

Query Match 94.1%; Score 2587.6; DB 9; Length 2771;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 2736; Conservative 0; Mismatches 9; Indels 13; Gaps 13;
QY 1 CTCCACGGTGTTCAGCGCCAGAAATGCGCTTCTGCTCTGCTATATGGGTGCTGCTG 60
DB 18 CTCCACGGTGTTCAGCGCCAGAAATGCGCTTCTGCTCTGCTATATGGGTGCTGCTG 77
QY 61 CTCCACGGTGTTCAGCGCCAGAAATGCGCTTCTGCTCTGCTATATGGGTGCTGCTG 120
DB 78 CTCCACGGTGTTCAGCGCCAGAAATGCGCTTCTGCTCTGCTATATGGGTGCTGCTG 137
QY 121 GTGTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 180
DB 138 GTGTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 197
QY 181 AAGGTGGGATCT 240
DB 198 AAGGTGGGATCT 257
QY 241 GAGCAATGAGGGGAGGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
DB 258 GAGCAATGAGGGGAGGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 317
QY 301 ACCTGTGGAACTCTACCTCTGCAAGAGCTGAGGGAGTCTGCTGCTGCTGCTGCTGCTG 360
DB 318 ACCTGTGGAACTCTACCTCTGCAAGAGCTGAGGGAGTCTGCTGCTGCTGCTGCTGCTG 377
QY 361 GGCCCGGATGAGTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
DB 378 GGCCCGGATGAGTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 437
QY 421 TCCCTTCTCCACCTTCCAGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 480
DB 438 TCCCTTCTCCACCTTCCAGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 497
QY 481 CAGCAACCCAGCCCGCCAGGATTTGACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 540
DB 498 CAGCAACCCAGCCCGCCAGGATTTGACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTG 557
QY 541 AAGCAGGGGAGAGCAGGGGCTGAGGGCCCTTCCATTGCGCAGGGAGTCTCCAGTAGCGGCAC 600
DB 558 AAGCAGGGGAGAGCAGGGGCTGAGGGCCCTTCCATTGCGCAGGGAGTCTCCAGTAGCGGCAC 617
QY 601 GAAAGGACTTCTCAGTACACAGGAACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 660
DB 618 GAAAGGACTTCTCAGTACACAGGAACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 677
QY 661 AGCTCCCGCCCCCCTGAGCTGAGTCCACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 720
DB 678 AGCTCCCGCCCCCCTGAGCTGAGTCCACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 737
QY 721 AGCAGTGGCAGCTCTAAGCCAGGGTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 780
DB 738 AGCAGTGGCAGCTCTAAGCCAGGGTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 797
QY 781 CTGCTGCTGCTGAGCTTCTGCTGAGCGCAGGCTGATCGCTTCTGCTGCTGCTGCTGCTGCT 840
DB 798 CTGCTGCTGCTGAGCTTCTGCTGAGCGCAGGCTGATCGCTTCTGCTGCTGCTGCTGCTGCT 857
QY 841 CTGCTGAGGAAAGAGCTCAACAGGCCACCGAGACACAGAGGACAGAGAGTCTGCTGCTGCT 900
DB 858 CTGCTGAGGAAAGAGCTCAACAGGCCACCGAGACACAGAGGAAAGAGTCTGCTGCTGCTGCT 917

QY 901 TCAGCTGTGACTCGGAGGAAAGAAAGCCCTCCAGAGCCCTCCAGAGCCCTCGAGGGGACGTCATC 960
DB 918 TCAGCTGTGACTCGGAGGAAAGAAAGCCCTCCAGAGCCCTCGAGGGGACGTCATC 977
QY 961 TCAGATGCTCCCTCCACACATCTGAGGAGAGAGCTGGGCTTCGAAAGTTTGTCTCAGCG 1020
DB 978 TCAGATGCTCCCTCCACACATCTGAGGAGAGAGCTGGGCTTCGAAAGTTTGTCTCAGCG 1037
QY 1021 TAGGCGAGGAGGCGCTCCCTCGGCGAGGCGACAGCTGAGCGAGTATGGCTGGCTGGATCAGC 1080
DB 1038 TAGGCGAGGAGGCGCTCCCTCGGCGAGGCGACAGCTGAGCGAGTATGGCTGGCTGGATCAGC 1097
QY 1081 ACCGATTCGCGAAAGCTTTCCACCTCAGCTCAGAGTCCAGCTGCGCGGACTCCAGGGCT 1140
DB 1098 ACCGATTCGCGAAAGCTTTCCACCTCAGCTCAGAGTCCAGCTGCGCGGACTCCAGGGCT 1157
QY 1141 CTCGCCACCTCCGCCAGGCTCTCCTTTGTGATGTTCCAGCTGACCTTAGAAGCGTTTGTGTC 1200
DB 1158 CTCGCCACCTCCGCCAGGCTCTCCTTTGTGATGTTCCAGCTGACCTTAGAAGCGTTTGTGTC 1217
QY 1201 AGCCCTGGAGCCGAGAGGCGTGTGCTCTTCCGCTGGAGACTGGGACATCCCTGAT 1260
DB 1218 AGCCCTGGAGCCGAGAGGCGTGTGCTCTTCCGCTGGAGACTGGGACATCCCTGAT 1277
QY 1261 AGGTTTCAATCCCTGGGCGAGTACAGAGCTGTGACCTCAGCAGGCGCCAGACAGGCT 1320
DB 1278 AGGTTTCAATCCCTGGGCGAGTACAGAGCTGTGACCTCAGCAGGCGCCAGACAGGCT 1337
QY 1321 CAGTGGATCTGGTGTGAGTTTCAATCTGCCAGGAATCTCTGGGCGCTCATGCCAGTGTGCG 1380
DB 1338 CAGTGGATCTGGTGTGAGTTTCAATCTGCCAGGAATCTCTGGGCGCTCATGCCAGTGTGCG 1397
QY 1381 GACCTGCTCTCTCCACCTCCAGAGCCGACCTGTCTTCCCTCCCTGGGCGTCTCCAGAC 1440
DB 1398 GACCTGCTCTCTCCACCTCCAGAGCCGACCTGTCTTCCCTCCCTGGGCGTCTCCAGAC 1457
QY 1441 TTAGTCCACGCTCTCTCCATCAGCTGTGATGAAGAGAGCATGTGGGGTGAGACTG 1500
DB 1458 TTAGTCCACGCTCTCTCCATCAGCTGTGATGAAGAGAGCATGTGGGGTGAGACTG 1517
QY 1501 GGATTTGGCTTCTTTTGAACCACTGCAAT - CCAGCCCTTCAGGAAGCTGTGAAAGAAC 1559
DB 1518 GGATTTGGCTTCTTTTGAACCACTGCAATCCAGCCCTTCAGGAAGCTGTGAAAGAAC 1577
QY 1560 GTGATTTCT - GCGCCACCAAGACCCACCAACCACTCTCT - GGGCTTGGTGCAGGACTC 1617
DB 1578 GTGATTTCTGGGCGCCACCAAGACCCACCAACCACTCTCTGGGCGTGTGTGCAGGACTC 1637
QY 1618 TGAA - TTCTAACCAATGCGCAGTGACTGTGCACTTGAGTTTGAGGGCCAGTGGGCGCTGAT 1676
DB 1638 TGAATTTCTAACCAATGCGCAGTGACTGTGCACTTGAGTTTGAGGGCCAGTGGGCGCTGAT 1697
QY 1677 GAAAGCTCACACCCCTTCAGCTTAGAGTGTGCAATTTGGGCTGTGACGTCT - CCACTTGGC 1735
DB 1698 GAAAGCTCACACCCCTTCAGCTTAGAGTGTGCAATTTGGGCTGTGACGTCTCCACCTGCC 1757
QY 1736 CCAAT - AGATCTGCTGTGTGCGACACC - AGATCCAGTGGGGACTCCCTCAGGCGCTG 1793
DB 1758 CCAATAAGATCTGCTGTGTGCGACACCAAGATCCAGCTGGGAGCTCCCTCAGGCGCTG 1817
QY 1794 -CTAAGTCCAGGCGCTTGGTCAGGTTCAGGTGCAGTGTGCATTGCA - GGATAAGCCCGACGACCGGCA 1851
DB 1818 CTTAAGTCCAGGCGCTTGGTCAGGTTCAGGTGCAGTGTGCATTGCGAGGATTAAGCCAGACCGGCA 1877
QY 1852 CAGAAGTGGTGTGCTTTTNCATTTGCCCTCCCTGGNCCATGCCCTTTGTGCTTTTGGAAAA 1911
DB 1878 GAG - AGTGGTGTGCTTTT - CCAATTTGCCCTCCCTGG - CCAATGCCCTTTGTGCTTTGG - AAA 1933
QY 1912 AATGATGAAGAAACCTTGGCTCTCTGCTGTGGAAGGGTTACTTGGCTATGGGTTTC 1971
DB 1934 AATGATGAAGAAACCTTGGCTCTCTGCTGTGGAAGGGTTACTTGGCTATGGGTTTC 1993
QY 1972 TGGTGGCTAGAGAGAAAGTAGAAAAACAGAGTGCAGTGTGCTCTTAACACAGAGGAGA 2031

DB 1994 TGCTGGCTAGAGAGAAAGTAGAAAAACAGAGTGCAAGTAGTGTCTTAACACAGAGGAGA 2053
QY 2032 GTAGGAAACAGGGCGGATACCTGAAGTGACTCCGAGTCCAGCCCTCGAGAGAGGGGTGCG 2091
DB 2054 GTAGGAAACAGGGCGGATACCTGAAGTGACTCCGAGTCCAGCCCTCGAGAGAGGGGTGCG 2113
QY 2092 GGGGTGTGTAAAGTAGCAACTACTATTTTTTTTTTTTTTTTTTTTCCATTATTTATTTT 2151
DB 2114 GGGGTGTGTAAAGTAGCAACTACTATTTTTTTTTTTTTTTTTTTTCCATTATTTATTTT 2173
QY 2152 TAAGACAGAAATCTCGTCTGCTGCCAGGCTGGAGTGCAGTGCAGCAAGATCTGCAAACTCC 2211
DB 2174 TAAGACAGAAATCTCGTCTGCTGCCAGGCTGGAGTGCAGTGCAGCAAGATCTGCAAACTCC 2233
QY 2212 GCCTCTCGGTTCAAGTGATTTCTTGCCTCAGCCTCCGAGTAGCTGGGATTCACAGGCA 2271
DB 2234 GCCTCTCGGTTCAAGTGATTTCTTGCCTCAGCCTCCGAGTAGCTGGGATTCACAGGCA 2293
QY 2272 CGCACACACACCTCGCTAAATTTTGTACTTTTAGTAGAGATGGGTTTCCACATGTTG 2331
DB 2294 CGCACACACACCTCGCTAAATTTTGTACTTTTAGTAGAGATGGGTTTCCACATGTTG 2353
QY 2332 GCCAGGCTGTCTTGAACCTCTGACCTCAAATGAGCCTCCTGCTTCACTTCCCAATG 2391
DB 2354 GCCAGGCTGTCTTGAACCTCTGACCTCAAATGAGCCTCCTGCTTCACTTCCCAATG 2413
QY 2392 CCGGATTCAGGCAATGAGCCTGTCTGGCCCTATTTCTTTTAAAGTAGAATTA 2451
DB 2414 CCGGATTCAGGCAATGAGCCTGTCTGGCCCTATTTCTTTTAAAGTAGAATTA 2473
QY 2452 GAGTGTCTCAGTATGCAAACTTTGGAAGATGAGAGAGAAAAAGAGAAAAA 2511
DB 2474 GAGTGTCTCAGTATGCAAACTTTGGAAGATGAGAGAGAAAAAGAGAAAAA 2533
QY 2512 TGTCACCCATAGTCTCACCAGAGCATCATATTTTCTGTTTGTGTACTTCTTCCACT 2571
DB 2534 TGTCACCCATAGTCTCACCAGAGCATCATATTTTCTGTTTGTGTACTTCTTCCACT 2593
QY 2572 CTTTCTCTTTCACATAATTTGCGGTGTCTTTTACAGAGCAATATCTGTATATAC 2631
DB 2594 CTTTCTCTTTCACATAATTTGCGGTGTCTTTTACAGAGCAATATCTGTATATAC 2653
QY 2632 AACTTTGTATCTCGCTTTTCCACTTATCGTTCCATCACTTTATTTCCAGCACTTCTCTG 2691
DB 2654 AACTTTGTATCTCGCTTTTCCACTTATCGTTCCATCACTTTATTTCCAGCACTTCTCTG 2713
QY 2692 TGTTTTCAGAGCTTTTATATAAATAAATGTTTCATCAGCTGCATATAAAAAA 2749
DB 2714 TGTTTTCAGAGCTTTTATATAAATAAATGTTTCATCAGCTGCATATAAAAAA 2771

RESULT 8

BD242876
LOCUS 1987 bp DNA linear
DEFINITION Secreted proteins and polynucleotides encoding them.
ACCESSION BD242876
VERSION BD242876.1 GI:33052646
KEYWORDS JP 2002536973-A/27.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1987)
AUTHORS Valenzuela,D., Yuan,O., Hoffman,H., Hall,J. and Rapiejko,P.
TITLE Secreted proteins and polynucleotides encoding them
JOURNAL Patent: JP 2002536973-A 27 05-NOV-2002;
ALPHAGEN INC
COMMENT OS Homo sapiens (human)
FN JP 2002536973-A/27
PD 05-NOV-2002
PF 18-FEB-2000 JP 2000599860
PR 19-FEB-1999 US 60/120680, 23-APR-1999 US 09/298733 PR

QY 2700 AGACCTTTTATAAATAAATGTCATCAGCTGCATATAAAAAA 2749
 |||||
 Db 1924 AGACCTTTTATAAATAAATGTCATCAGCTGCATATCCAAAAA 1973
 |||||

RESULT 9

AC007993/c

LOCUS

AC007993 Homo sapiens chromosome 17, clone RP11-527L4, linear PRI 15-JAN-2000

ACCESSION

AC007993

VERSION

AC007993.15 GI:6693756

KEYWORDS

HTG.

SOURCE

Homo sapiens (human)

ORGANISM

Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE

1 (bases 1 to 141704)

Birren, B., Linton, L., Nussbaum, C., Lander, E., Allen, N., Anderson, M.,

Baker, J., Baldwin, J., Barna, N., Beckerly, R., Beum, J., Brown, A.,

Castle, A., Cerny, J., Colangelo, M., Collins, S., Collymore, A.,

Cooke, P., DeArelano, K., Depayre, E., Devon, K., Dewar, K.,

Donelan, L., Doyle, M., Ferreira, P., FitzHugh, W., Forrest, C.,

Funke, R., Gage, D., Galagan, J., Gardyna, S., Gilbert, D., Grant, G.,

Hagos, B., Heaford, A., Horton, L., Howland, J. C., Jones, C., Kann, L.,

Karatas, A., Lehoczy, J., Liu, C., Locke, K., Macdonald, P.,

Marquis, N., McEwan, P., McGurk, A., McKernan, K., McLaughlin, J.,

Meldrim, J., Molla, M., Morris, W., Morrow, J., Mychaleckyj, J.,

Naylor, J., Niloff, M., O'Connor, T., O'Donnell, P., Pavlin, B.,

Peterson, K., Pollara, V., Riley, R., Roberts, D., Roy, A., Severy, P.,

Stange-Thomann, N., Stojanovic, N., Stone, C., Subramanian, A.,

Tessfaye, S., Toruella-Miller, I., Vassiliev, H., Vo, A., Wagner, A.,

Wheeler, J., Wu, X., Wyman, D., Ye, W. J. and Zody, M.

Direct Submission

Submitted (08-JUL-1999) Whitehead Institute/MIT Center for Genome

Research, 320 Charles Street, Cambridge, MA 02141, USA

REFERENCE

3 (bases 1 to 141704)

Birren, B., Linton, L., Nussbaum, C., Lander, E., Abraham, H., Allen, N.,

Anderson, S., Baldwin, J., Barna, N., Beckerly, R., Beda, F.,

Boguslavskiy, L., Boukhalter, B., Brown, A., Burkett, G., Castle, A.,

Choepel, Y., Collangelo, M., Collins, S., Collymore, A., Cooke, P.,

DeArelano, K., Dewar, K., Domino, M., Doyle, M., Penestor, J.,

Ferreira, P., FitzHugh, W., Forrest, C., Gage, D., Galagan, J.,

Gardyna, S., Grant, G., Hagos, B., Heaford, A., Horton, L.,

Howland, J. C., Johnson, R., Jones, C., Kann, L., Karatas, A., Klein, J.,

Landers, T., Lehoczy, J., Levine, R., Lieu, C., Liu, G., Locke, K.,

Macdonald, P., Marquis, N., McEwan, P., McGurk, A., McKernan, K.,

McPheeters, R., Meldrim, J., Meneus, L., Morrow, J., Naylor, J.,

Norman, C. H., O'Connor, T., O'Donnell, P., Olivari, T. M., Peterson, K.,

Pierre, N., Pisani, C., Pollara, V., Raymond, C., Riley, R., Rothman, D.,

Roy, A., Santos, R., Severy, P., Spencer, B., Stange-Thomann, N.,

Stojanovic, N., Subramanian, A., Talamas, J., Tessfaye, S., Theodore, J.,

Tirrell, A., Vassiliev, H., Viel, R., Vo, A., Wu, X., Wyman, D., Ye, W. J.,

Zimmer, A. and Zody, M.

Direct Submission

Submitted (15-JAN-2000) Whitehead Institute/MIT Center for Genome

Research, 320 Charles Street, Cambridge, MA 02141, USA

On Jan 15, 2000 this sequence version replaced gi:6681347.

All repeats were identified using RepeatMasker:

Smit, A. F. A. & Green, P. (1996-1997)

<http://ftp.genome.washington.edu/RM/RepeatMasker.html>

Only the last 141704 base pairs of this clone are being submitted.

The remainder overlaps accession number AC004150 (WTCGR project

L306).

TITLE

JOURNAL

COMMENT

Center code: WTHR

Web site: <http://www-seq.wi.mit.edu>Contact: sequence_submissions@genome.wi.mit.edu

----- Project Information
 Center project name: L559
 Center clone name: 527_L_4

FEATURES	Location/Qualifiers
source	1. 141704
	/organism="Homo sapiens"
	/mol_type="genomic DNA"
	/db_xref="taxon:9606"
	/chromosome="17"
	/map="17"
	/clone="RP11-527L4"
	/clone_lib="RPC1-11 Human Male BAC"
repeat_region	666..952
	/rpt_family="AluSx"
repeat_region	1194..1336
	/rpt_family="L2"
repeat_region	1338..1515
	/rpt_family="AluJb"
repeat_region	1528..1729
	/rpt_family="L2"
repeat_region	complement(1730..2058)
	/rpt_family="AluSg"
repeat_region	2059..2780
	/rpt_family="L2"
repeat_region	2784..2933
	/rpt_family="AluJb"
repeat_region	complement(2934..3244)
	/rpt_family="AluYb8"
repeat_region	3245..3274
	/rpt_family="AluJb"
repeat_region	3285..3583
	/rpt_family="AluSx"
repeat_region	3594..4160
	/rpt_family="L2"
repeat_region	4182..4492
	/rpt_family="AluSg"
repeat_region	4532..4838
	/rpt_family="AluSg"
repeat_region	4875..5049
	/rpt_family="AluY"
repeat_region	complement(5050..5494)
	/rpt_family="MLT1F1"
repeat_region	complement(5511..5643)
	/rpt_family="FLAM_C"
repeat_region	complement(5665..5968)
	/rpt_family="AluSg"
repeat_region	complement(5975..6046)
	/rpt_family="MLT1G1"
repeat_region	6047..6165
	/rpt_family="AluSg/x"
repeat_region	6169..6195
	/rpt_family="(CNAAC)n"
repeat_region	complement(7195..7239)
	/rpt_family="L2"
repeat_region	7339..7366
	/rpt_family="AT_rich"
repeat_region	7367..7667
	/rpt_family="AluJb"
repeat_region	7668..7693
	/rpt_family="AT_rich"
repeat_region	complement(7882..8043)
	/rpt_family="AluJb"
repeat_region	complement(8044..8341)
	/rpt_family="AluY"
repeat_region	complement(8342..8487)
	/rpt_family="AluJb"
repeat_region	complement(8511..8615)
	/rpt_family="MLT1C"
repeat_region	complement(8657..8712)
	/rpt_family="MLT1C"
repeat_region	complement(8714..8783)
	/rpt_family="AluSg"

repeat_region	complement (8784. .9091) /rpt_family="AluSp"	1029	GAGGCCCTCTCTGGCCAGCGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGCACCGATTTC	Qy
repeat_region	complement (9092. .9221) /rpt_family="AluSq"	139603	GAGGCCCTCTCTGGCCAGCGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGCACCGATTTC	Db
repeat_region	complement (9378. .9681) /rpt_family="AluY"	1089	CGAAGAAGCTTTCCACCTCAGCCTCAGATCAGATGTCGCGGACCTCAGGGCTCTCCCCAC	Qy
repeat_region	complement (9682. .9884) /rpt_family="AluJb"	139543	CGAAGAAGCTTTCCACCTCAGCCTCAGATCAGATGTCGCGGACCTCAGGGCTCTCCCCAC	Db
repeat_region	complement (10069. .10372) /rpt_family="AluSq"	1149	CTTCCCCAGGCTCTCTCTCTTGCATGTTCCAGGCTCAGCTCAGAGGCTTTGTTCAGGCCCTGG	Qy
repeat_region	10438. .10728 /rpt_family="AluY"	139483	CTTCCCCAGGCTCTCTCTCTTGCATGTTCCAGGCTCAGCTCAGAGGCTTTGTTCAGGCCCTGG	Db
repeat_region	complement (10765. .10909) /rpt_family="LIP1"	1209	AGCCAGAGCGGTGGCTTTGCTCTTCCGGCTGGAGACTGGGACATCCCTGATAGGTTTCAC	Qy
repeat_region	complement (10924. .10969) /rpt_family="MADE1"	139423	AGCCAGAGCGGTGGCTTTGCTCTTCCGGCTGGAGACTGGGACATCCCTGATAGGTTTCAC	Db
repeat_region	complement (10978. .11051) /rpt_family="LIMC/D"	1269	ATCCCTGGGAGAGTACAGGCTGCTGACCTCAGCAGGGCCAGACAAGGCTCAGTGTGAT	Qy
repeat_region	complement (11052. .11360) /rpt_family="AluSx"	139363	ATCCCTGGGAGAGTACAGGCTGCTGACCTCAGCAGGGCCAGACAAGGCTCAGTGTGAT	Db
repeat_region	complement (11361. .11585) /rpt_family="LIMC/D"	1329	CTGGCTGAGATTTCAATCTGCCAGGAATCTCTGGGCTCTATGCCCAGTGTGGACCCCTGC	Qy
repeat_region	11620. .11676 /rpt_family=" (TR) n"	139303	CTGGCTGAGATTTCAATCTGCCAGGAATCTCTGGGCTCTATGCCCAGTGTGGACCCCTGC	Db
repeat_region	complement (11681. .11855) /rpt_family="FRAM"	1389	CTTCTCTCCACTCCAGACCCACCTTGTCTTCTCCCTCTGGGCTCTCAGACTTAGTCTCC	Qy
repeat_region	11931. .12093 /rpt_family="LIM4"	139243	CTTCTCTCCACTCCAGACCCACCTTGTCTTCTCCCTCTGGGCTCTCAGACTTAGTCTCC	Db
repeat_region	12113. .12144 /rpt_family=" (TTTG) n"	1449	AGGCTCTCTGCATCAGCTGCTGATGAAGAGAGCATGCTGGGGTGAGACTGGGATTCG	Qy
repeat_region	complement (12145. .12427) /rpt_family="AluY"	139183	AGGCTCTCTGCATCAGCTGCTGATGAAGAGAGCATGCTGGGGTGAGACTGGGATTCG	Db
repeat_region	12459. .12769 /rpt_family="AluSx"	1509	GCTTCTCTTTGAACCACTGCAAT-CCAGCCCTTCAGGAAGCTGTGAAAACGTGATTTC	Qy
repeat_region	13659. .13863 /rpt_family="L2"	139123	GCTTCTCTTTGAACCACTGCAAT-CCAGCCCTTCAGGAAGCTGTGAAAACGTGATTTC	Db
repeat_region	14468. .14655 /rpt_family="MIR"	1568	T-EGGCCCAACCAAGACCCACCAAAACCATCTCT-EGGCTTGGTGAGGACTCTGAA-TTC	Qy
repeat_region	complement (14866. .15007) /rpt_family="MIR"	139063	TGGGCCCAACCAAGACCCACCAAAACCATCTCTGGGCTTGGTGAGGACTCTGAAATTC	Db
repeat_region	complement (15230. .15545) /rpt_family="AluSc"	1625	TAAATGCCCAGTGATGCTGCACTTGAGTTTGAAGGCCAGTGGGCTGTATGAACGCTC	Qy
repeat_region	complement (15565. .15914) /rpt_family="LIME2"	139003	TAAATGCCCAGTGATGCTGCACTTGAGTTTGAAGGCCAGTGGGCTGTATGAACGCTC	Db
repeat_region	16043. .16328 /rpt_family="AluJo"	1685	ACACCCCTTTCAGCTTAGAGTCTGGCTGTCAGTCT-CCACCTGCCCAAT-AG	Qy
repeat_region	complement (16332. .16553) /rpt_family="LIMC/D"	138943	AGACCCCTTTCAGCTTAGAGTCTGGCTGTCAGTCT-CCACCTGCCCAAT-AG	Db
repeat_region	16882. .17041 /rpt_family="MIR"	1743	ATCTGCTCTGCTGGGACACC-AGATCCACGTTGGGGACTCCCTGAGGCTG-CTAAGTC	Qy
repeat_region	18247. .18273 /rpt_family=" (TTG) n"	138883	ATCTGCTCTGCTGGGACACCACCAAGATCCAGCTGGGGACTCCCTGAGGCTGCTAAGTC	Db
repeat_region	complement (18274. .18570) /rpt_family="AluSx"	1801	CAGGCTTGGTTCAGGTCAGTGACATTGCA-GGATAAGCCAGGACCGGACAGAGTG	Qy
repeat_region	18993. .19085 /rpt_family="MER91A"	138823	CAGGCTTGGTTCAGGTCAGTGACATTGCA-GGATAAGCCAGGACCGGACAGAGTG	Db
repeat_region	19541. .19732 /rpt_family="LIME3A"	1860	GTTGCTTTNCCATTGGCTCCCTGGGNCATGCTTCTGGCTTTGGGAAAATGATGA	Qy
repeat_region	19733. .20031 /rpt_family="AluSg"	138764	GTTGCTTTNCCATTGGCTCCCTGGGNCATGCTTCTGGCTTTGGGAAAATGATGA	Db
repeat_region	20032. .20347	1920	AGAAAACCTTGGCTCTCTCTTGTCTGAAAAGGGTTACTTGCCTATGGGTTCTGGTGCT	Qy
repeat_region		138707	AGAAAACCTTGGCTCTCTCTTGTCTGAAAAGGGTTACTTGCCTATGGGTTCTGGTGCT	Db
repeat_region		1980	AGAGAAAAGTAGAAAACACAGAGTGCACTGATGTTCTTAACACAGAGGAGATGAGAAC	Qy
repeat_region		138647	AGAGAAAAGTAGAAAACACAGAGTGCACTGATGTTCTTAACACAGAGGAGATGAGAAC	Db
repeat_region		2040	AGGGCGGATACCTGAGGTGACTCCAGTCCAGCCCCCTGGAGAGGGGTCGGGGTGGT	Qy
repeat_region		138587	AGGGCGGATACCTGAGGTGACTCCAGTCCAGCCCCCTGGAGAGGGGTCGGGGTGGT	Db

Query Match

Best Local Similarity

Matches 1818; Conservative

60.8%; Score 1671.4; DB 9; Length 141704;

99.0%; Pred. No. 0;

0; Mismatches

6; Indels

13; Gaps

13;

Qy	909	GACTGGGGAGGAAAGGAGAGAGCTGGGCTTCTCGAAGTTTGTCTCAGGCTAGGGCAG	1028
Db	139723	GACTGGGGAGGAAAGGAGAGAGCTGGGCTTCTCGAAGTTTGTCTCAGGCTAGGGCAG	139604
Qy	969	TCCCTTCCACATCTGAGAGAGCTGGGCTTCTCGAAGTTTGTCTCAGGCTAGGGCAG	1028
Db	139663	TCCCTTCCACATCTGAGAGAGCTGGGCTTCTCGAAGTTTGTCTCAGGCTAGGGCAG	139604

```
QY 2100 GGTAAAGTAGCACAACACTACTATATTTTCTTTTCTTTTCCATATATATATGTTTTTAAGACAG 2159
Db 138527 GGTAAAGTAGCACAACACTACTATATTTTCTTTTCTTTTCCATATATATATGTTTTTAAGACAG 138468
QY 2160 AATCTCGTGTCTGTCGCCAGGCTGGAGTGAGTGCGACGATCTGCGAACTCCGCTCCTG 2219
Db 138467 AATCTCGTGTCTGTCGCCAGGCTGGAGTGAGTGCGACGATCTGCGAACTCCGCTCCTG 138408
QY 2220 GGTTCAGTAGTATCTTCTGCTCAGCTCCGAGTAGCTGGGATTTACAGCGACGCCAC 2279
Db 138407 GGTTCAGTAGTATCTTCTGCTCAGCTCCGAGTAGCTGGGATTTACAGCGACGCCAC 138348
QY 2280 CACACCTGGCTAATTTTGTACTTTTAGTAGAGATGGGGTTTCCACATGTTGCGCAGGCT 2339
Db 138347 CACACCTGGCTAATTTTGTACTTTTAGTAGAGATGGGGTTTCCACATGTTGCGCAGGCT 138288
QY 2340 GGTCTTGAACCTCTGACCTCAATAGAGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2399
Db 138287 GGTCTTGAACCTCTGACCTCAATAGAGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 138228
QY 2400 ACAGGCATGAGCCACTGTCTGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2459
Db 138227 ACAGGCATGAGCCACTGTCTGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 138168
QY 2460 CAGTATGCAAACTTGGAAAGATGGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2519
Db 138167 CAGTATGCAAACTTGGAAAGATGGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 138108
QY 2520 ATAGTCTCACGAGACTATCATATTTCTGTTTGTGTTGTTGTTGTTGTTGTTGTTGTTGTT 2579
Db 138107 ATAGTCTCACGAGACTATCATATTTCTGTTTGTGTTGTTGTTGTTGTTGTTGTTGTT 138048
QY 2580 CTTACATATATTTGCGGGTCTCTTTTACAGAGCAATATCTGTATATACAACTTTGT 2639
Db 138047 CTTACATATATTTGCGGGTCTCTTTTACAGAGCAATATCTGTATATACAACTTTGT 137988
QY 2640 ATCTGCTTTTTCACCTTATCTGTTCCATCACTTTATTCAGACACTCTCTCTGTTTATAC 2699
Db 137987 ATCTGCTTTTTCACCTTATCTGTTCCATCACTTTATTCAGACACTCTCTCTGTTTATAC 137928
QY 2700 AGACCTTTTATAAATAAATGTTTCATCAGCTGCATA 2736
Db 137927 AGACCTTTTATAAATAAATGTTTCATCAGCTGCATA 137891

RESULT 10
AC078837/c
LOCUS
DEFINITION Homo sapiens chromosome RP11-11 clone RP11-75315, WORKING DRAFT
ACCESSION AC078837
VERSION AC078837.3 GI:11990751
KEYWORDS HTG; HTGS PHASE1; HTGS_DRAFT.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 196421)
AUTHORS Waterston,R.H.
TITLE The sequence of Homo sapiens clone
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 196421)
AUTHORS Waterston,R.H.
TITLE Direct Submission
JOURNAL Submitted (04-AUG-2000) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
COMMENT On Dec 23, 2000 this sequence version replaced gi:10181053.

----- Genome Center -----
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: http://genome.wustl.edu/gsc/index.shtml
```

```
----- Project Information -----
Center project name: H NH0753105
----- Summary Statistics -----
Sequencing vector: M13; 100%
Chemistry: Dye-terminator Big Dye; 0% of reads
Assembly program: Phrap; version 0.990319
Consensus quality: 163510 bases at least Q40
Consensus quality: 174302 bases at least Q30
Consensus quality: 179811 bases at least Q20
Insert size: 205000; agarose-fp
Insert coverage: 3.04 in Q20 bases; agarose-fp
Quality coverage: 3.15 in Q20 bases; sum-of-contigs

* NOTE: This is a 'working draft' sequence. It currently
* consists of 58 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence.
* as soon as it is available and the accession number will
* be preserved.

1 1234: contig of 1234 bp in length
* 1235 1334: gap of unknown length
* 1335 2739: contig of 1405 bp in length
* 2740 2839: gap of unknown length
* 2840 3921: contig of 1082 bp in length
* 3922 4021: gap of unknown length
* 4022 5902: contig of 1881 bp in length
* 5903 6002: gap of unknown length
* 6003 7587: contig of 1585 bp in length
* 7588 7687: gap of unknown length
* 7688 9123: contig of 1436 bp in length
* 9124 9223: gap of unknown length
* 9224 10389: contig of 1166 bp in length
* 10390 10489: gap of unknown length
* 10490 11581: contig of 1092 bp in length
* 11582 11681: gap of unknown length
* 11682 12845: contig of 1164 bp in length
* 12846 12945: gap of unknown length
* 12946 14485: contig of 1540 bp in length
* 14486 14585: gap of unknown length
* 14586 16099: contig of 1514 bp in length
* 16100 16199: gap of unknown length
* 16200 17573: contig of 1374 bp in length
* 17574 17673: gap of unknown length
* 17673 19601: contig of 1928 bp in length
* 19602 19701: gap of unknown length
* 19702 21093: contig of 1392 bp in length
* 21094 22407: contig of 1214 bp in length
* 22408 22507: gap of unknown length
* 22508 23989: contig of 1482 bp in length
* 23990 24090: gap of unknown length
* 24090 25735: contig of 1646 bp in length
* 25736 25835: gap of unknown length
* 25836 28128: contig of 2293 bp in length
* 28129 28229: gap of unknown length
* 28229 29795: contig of 1566 bp in length
* 29795 29894: gap of unknown length
* 29894 32228: contig of 2334 bp in length
* 32229 34229: contig of 1901 bp in length
* 34230 34329: gap of unknown length
* 34330 36919: contig of 2590 bp in length
* 36920 37019: gap of unknown length
* 37020 39187: contig of 2168 bp in length
* 39188 39287: gap of unknown length
* 39288 40978: contig of 1691 bp in length
* 40979 41078: gap of unknown length
* 41079 43263: contig of 2185 bp in length
```


1509 GCTTCTCTTTGAACCACTGTCAT-CCAGCCCTTCAGGAAGCCCTGTGAAAAACGTGATTC 1567
194449 GCTTCTCTTTGAACCACTGTCATCCAGCCCTTCAGGAAGCCCTGTGAAAAACGTGATTC 194390
1568 T-GGCCCCCAAGACCCCAAAACCATCTCT- GGCTTTGGTGGCAGGACTCTGAA- TTC 1624
194389 TGGGCCCCCAAGACCCCAAAACCATCTCTGGGGCTTTGGTGCAGGACTCTGAAATTC 194330
1625 TACAAATGCCAGTGTGCGACATTTGAGTGTGAGGGCCAGTGGCCCTGATCAACGCTC 1684
194329 TACAAATGCCAGTGTGCGACATTTGAGTGTGAGGGCCAGTGGCCCTGATGAACGCTC 194270
1685 ACACCCCTTCAGCTTGAAGTCTGCAATTTGGGCTGTGACGTCT-CCACCTCCCCCAAT-AG 1742
194269 AGACCCCTTCAGCTTGAAGTCTGCAATTTGGGCTGTGAGCTCTCCACCTGCCCAATAG 194210
1743 ATCTGCTCTCTGCGACACC-AGATCCAGTGGGACATCCCTCTGAGGCCCTG-CTAAGTC 1800
194209 ATCTGCTCTCTGCGACACCAGATCCAGTGGGACATCCCTCTGAGGCCCTGCTAAGTC 194150
1801 CAGGCCCTTGGTCAGGTGAGTGCACATTTGCA- GGATAGCCCAAGGACCCGACAGAGTG 1859
194149 CAGGCCCTTGGTCAGGTGAGTGCACATTTGCAAGGATAGCCCAAGGACCCGACAG-AGT 194091
1860 GTTGGCCCTTTCACATTTGCCCTCCCTGNCATGCTCTTTCGCTTTTGGAAAAATGATGA 1919
194090 GTTGGCCCTT-CAATTTGGCCCTCCCTGG-CAATGCTCTTTCGCTTTGG-AAAAATGATGA 194034
1920 AGAAAACTTGGCTCTCTCTCTCTGGAAGGGTTACTTTCCTATGCGTCTTGGTGGCT 1979
194033 AGAAAACTTGGCTCTCTCTCTCTGGAAGGGTTACTTTCCTATGCGTCTTGGTGGCT 193974
1980 AGAGAGAAAGTGAAGAACAGAGTGCACGTAGTGTCTTAACACAGAGAGTGAAGAC 2039
193973 AGAGAGAAAGTGAAGAACAGAGTGCACGTAGTGTCTTAACACAGAGAGTGAAGAC 193914
2040 AGGGCGGATACCTGAAGTGCACCTCCAGTCCAGCCCTCGAGAGGGGTGCGGGTGGT 2099
193913 AGGGCGGATACCTGAAGTGCACCTCCAGTCCAGCCCTCGAGAGGGGTGCGGGTGGT 193854
2100 GGTAAAGTAGCAACAATATATTTTCTTTTTCATTTATTTATTTTATTTTAAAGACAG 2159
193853 GGTAAAGTAGCAACAATATATTTTCTTTTTCATTTATTTATTTTATTTTAAAGACAG 193794
2160 AATCTCGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2219
193793 AATCTCGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 193734
2220 GGTTCAGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2279
193733 GGTTCAGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 193674
2280 CACACCTGGCTAATTTTGTACTTTTAGTAGAGATGGGTTTCAACATGTGCGCAGGCT 2339
193673 CACACCTGGCTAATTTTGTACTTTTAGTAGAGATGGGTTTCAACATGTGCGCAGGCT 193614
2340 GGTCTTGAATCTCTGACCTCAATGAGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2399
193613 GGTCTTGAATCTCTGACCTCAATGAGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 193554
2400 ACAGGCATGAGCCACTGTGCTGCGCCCTATTTCTTTTAAAGAGTGAATTAAGAGTTGTT 2459
193553 ACAGGCATGAGCCACTGTGCTGCGCCCTATTTCTTTTAAAGAGTGAATTAAGAGTTGTT 193494
2460 CAGTATGCAAACTTGGAAAGATGGAGGAGAAAAAGAAAAAGAAAAAGAAAAAGTCAACC 2519
193493 CAGTATGCAAACTTGGAAAGATGGAGGAGAAAAAGAAAAAGAAAAAGAAAAAGTCAACC 193434
2520 ATAGTCTCAGCAGACTATATTTTCTTTTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 2579
193433 ATAGTCTCAGCAGACTATATTTTCTTTTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 193374
2580 CTTTCAATATTTTGGCGGTGTTCTTTTACAGAGCAATTTATCTTGTATATACAACTTTGT 2639

193373 DB CTTTCAATATTTTGGCGGTGTTCTTTTACAGAGCAATTTATCTTGTATATACAACTTTGT 193314
2640 QY ATCTGCTCTCTGCGACATTTTCCACCTTATCGTTCATCACTTTTATCCAGCACTTCTCTGTTGTTTAC 2699
193313 DB ATCTGCTCTCTGCGACATTTTCCACCTTATCGTTCATCACTTTTATCCAGCACTTCTCTGTTGTTTAC 193254
2700 QY AGACCTTTTATATAAATAAATGTTTCATCAGTGCATA 2736
193253 DB AGACCTTTTATATAAATAAATGTTTCATCAGTGCATA 193217

RESULT 11
AX817149
LOCUS AX817149 1111 bp DNA linear PAT 10-DEC-2003
DEFINITION Sequence 74 from Patent WO2063006.
ACCESSION AX817149
VERSION AX817149.1 GI:39722551
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Patent: WO 02063006-A 74 15-AUG-2002;
JOURNAL Incyte Genomics, Inc. (US)
FEATURES
source 1. .1111
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
/note="Incyte ID No: 3811024CB1"

ORIGIN
Query Match 25.3%; Score 694.4; DB 6; Length 1111;
Best Local Similarity 88.7%; Pred. No. 4.2e-169;
Matches 807; Conservative 0; Mismatches 1; Indels 102; Gaps 1;
QY 1 CTCCACGGTGTCCAGGCCCGCCAGAAATGCGGCTTCTGCTCTGCTATGAGGGTTCGCTGCTG 60
DB 32 CTCCACGGTGTCCAGGCCCGCCAGAAATGCGGCTTCTGCTCTGCTATGAGGGTTCGCTGCTG 91
QY 61 CTCCACGGTGTATGAAGCCCTGGAGGCCCGCCAGAGAAATCAGCGGGTTCCGAAGGGGACACT 120
DB 92 CTCCACGGTGTATGAAGCCCTGGAGGCCCGCCAGAGAAATCAGCGGGTTCCGAAGGGGACACT 151
QY 121 GTGTCCCTTCAGTGCACCTACAGGGGAAGAGTGAAGGACCAACCGGAAGTACTGGTGAGG 180
DB 152 GTGTCCCTTCAGTGCACCTACAGGGGAAGAGTGAAGGACCAACCGGAAGTACTGGTGAGG 211
QY 181 AAGGGTGGGATCCTCTTCTCTGCTGCTCTGCGACCATCTATGTCAGAGAGAGCCAG 240
DB 212 AAGGGTGGGATCCTCTTCTCTGCTGCTCTGCGACCATCTATGTCAGAGAGAGCCAG 271
QY 241 GAGACAATGAAGCGGAGGAGTGTCCATCCGTGACAGCGCCGAGAGCTCTCGCTCATTTGTG 300
DB 272 GAGACAATGAAGCGGAGGAGTGTCCATCCGTGACAGCGCCGAGAGCTCTCGCTCATTTGTG 331
QY 301 ACCCTGTGGAACTCACCCTTCGCAAGACGCTGGGGAGTACTTGGTGTGGGGTCGAAAAACGG 360
DB 332 ACCCTGTGGAACTCACCCTTCGCAAGACGCTGGGGAGTACTTGGTGTGGGGTCGAAAAACGG 391
QY 361 GGCCCGATGAGTCTTTTACTGATCTCTCTGTTGCTCTTTCCAGGACCTGCTCTCTCC 420
DB 392 GGCCCGATGAGTCTTTTACTGATCTCTCTGTTGCTCTTTCCAGGACCTGCTCTCTCC 434
QY 421 TCCCTTCTCCACCTTTCAGCCTCTGCGCTTACAAACGCGCTGCGCCCAAGGCAAAAGCT 480
DB 435 ----- 434
QY 481 CAGCAAAACCCAGCCCCCAGGATGACTTCTCTGGGCTCTTACCCGGAGCCACACAGCC 540

Db 435 -----CTTCTCTGGGCTTACCGGGAGCCACACAGCC 469

Qy 541 AAGCAGGGGAAGACAGGGGCTGAGGCCCTCCATTGCCAGGGAATTCCAGTACGGGCAC 600

Db 470 AAGCAGGGGAAGACAGGGGCTGAGGCCCTCCATTGCCAGGGAATTCCAGTACGGGCAC 539

Qy 601 GAAAGGACTTCTCAGTACACAGGAACCTCTCTCACCAGGACCTCTCTCTCTGACGG 660

Db 530 GAAAGGACTTCTCAGTACACAGGAACCTCTCTCACCAGGACCTCTCTCTCTGACGG 589

Qy 661 AGCTCCCGCCCCCCTCAGTACAGGAGCTTCCACCTCAGCAGGACACAGTCCAGCTCTC 720

Db 590 AGCTCCCGCCCCCCTCAGTACAGGAGCTTCCACCTCAGCAGGACACAGTCCAGCTCTC 649

Qy 721 AGCAGTGGCAGCTCTAAGCCAGGGTGTCCATCCGATGTCGCACTACTGGCCCCAGTC 780

Db 650 AGCAGTGGCAGCTCTAAGCCAGGGTGTCCATCCGATGTCGCACTACTGGCCCCAGTC 709

Qy 781 CTGGTGTCTGAGCCTTCTGTCAGCGGAGGCTGATCGCTTCTGACGCCACCTGCTC 840

Db 710 CTGGTGTCTGAGCCTTCTGTCAGCGGAGGCTGATCGCTTCTGACGCCACCTGCTC 769

Qy 841 CTGTGGAGAAGGAAGCTCAACAGGCCACGAGACACAGAGGAACGAGAACTTCTGCTC 900

Db 770 CTGTGGAGAAGGAAGCTCAACAGGCCACGAGACACAGAGGAACGAGAACTTCTGCTC 829

Qy 901 TCACGCTTGA 910

Db 830 TCACGCTTGA 839

RESULT 12

LOCUS AX923505 942 bp DNA linear PAT 18-DEC-2003

DEFINITION Sequence 2 from Patent WO03080667.

ACCESSION AX923505

VERSION AX923505.1 GI:40216551

KEYWORDS

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE 1

AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

TITLE A novel receptor trem (triggering receptor expressed on myeloid cells) and uses thereof

JOURNAL Colonina M. and Panina, P.B.

Patent: WO 03080667-A 2 02-OCT-2003;

Bioxell S.p.a. (It)

FEATURES

source Location/Qualifiers

1..942

/organism="Homo sapiens"

/mol_type="unassigned DNA"

/db_xref="taxon:9606"

ORIGIN

Query Match 14.3%; Score 394.4; DB 6; Length 942;

Best Local Similarity 96.2%; Pred. No. 3.9e-91;

Matches 404; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

Qy 1 CTCCACGGTGTCCAGCGCCAGAAATCGGCTTCTGCTCTGCTATATGGGGTTGGCTGCTG 60

Db 38 CTCCACGGTGTCCAGCGCCAGAAATCGGCTTCTGCTCTGCTATATGGGGTTGGCTGCTG 97

Qy 61 CTCCACGGTGTATGAGCCCTGGAGGCCAGAGAAATCAGCGGTTTCGAGGGGACACT 120

Db 98 CTCCACGGTGTATGAGCCCTGGAGGCCAGAGAAATCAGCGGTTTCGAGGGGACACT 157

Qy 121 GTGTCCCTGCACTCAGGGAAGAGCTGAGGGACACACCGGAAGTACTGGTGAGG 180

Db 158 GTGTCCCTGCACTCAGGGAAGAGCTGAGGGGACACACCGGAAGTACTGGTGAGG 217

Qy 181 AAGGGTGGGATCTCTTCTCTCGCTGCTTGTGGACCATCTATGACAGAGAGAGGCCAG 240

Db 218 AAGGTGGGATCTCTTCTCTGCTGCTGCGCCACATCTATGACAGAGAGAGGCCAG 277

Qy 241 GAGACAATGAAGGCGAGGGTGTCCATCCGTAAGCGCCAGGAGCTTCTCGCTCATTTGTG 300

Db 278 GAGACAATGAAGGCGAGGGTGTCCATCCGTAAGCGCCAGGAGCTTCTCGCTCATTTGTG 337

Qy 301 ACCCTGTGGAACCTCAACCTGCAAGAGCTGCGGGAGTACTGGTGTGGGGTCGAGAAACGG 360

Db 338 ACCCTGTGGAACCTCAACCTGCAAGAGCTGCGGGAGTACTGGTGTGGGGTCGAGAAACGG 397

Qy 361 GGCCCCGATGAGTCTTACTGATCTCTCTGCTGCTTTCACAGGACCTGCTGCTCTCCC 420

Db 398 GGCCCCGATGAGTCTTACTGATCTCTCTGCTGCTTTCACAGGAGCTCCGCCCCCC 457

RESULT 13

LOCUS AF427620 942 bp mRNA linear PRI 14-DEC-2002

DEFINITION Homo sapiens TREM4 beta mRNA, complete cds.

ACCESSION AF427620

VERSION AF427620.1 GI:26794010

KEYWORDS

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE 1

AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

TITLE Triggering receptor expressed on myeloid cells 4 beta

JOURNAL Colonina M.

Unpublished

REFERENCE 2 (bases 1 to 942)

AUTHORS Colonina M.

TITLE Direct Submission

JOURNAL Submitted (03-OCT-2001) Pathology and Immunology, Washington University School of Medicine, 660 South Euclid, St. Louis, MO 63110, USA

FEATURES

source Location/Qualifiers

1..942

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

62..730

/note="immunoglobulin superfamily; triggering receptor expressed on myeloid cells 4 beta"

/codon_start=1

/product="TREM4 beta"

/protein_id="AAN86135.1"

/db_xref="GI:26794011"

/translation="MRLLVLLWGLLLPGVEALEGPBEISGFGDVTLSLOCTVREBLR GHRKYCRKGILFRCSGHIAEBEGQETMKGRSLRDSRQBSLSLIVTLWNLTLQDA GRYWCQVEKRAPDESLIILFVFPSSRPMDSDSAEDTSPALSSGSKPRVSIPI VRILAPVLVLSLSAAGLIAFGCSHLLWRKEAQAQTETQRNEKFCILSRNLMSLS LPWL"

ORIGIN

Query Match 14.3%; Score 394.4; DB 9; Length 942;

Best Local Similarity 96.2%; Pred. No. 3.9e-91;

Matches 404; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

Qy 1 CTCCACGGTGTCCAGCGCCAGAAATCGGCTTCTGCTCTGCTATATGGGGTTGGCTGCTG 60

Db 38 CTCCACGGTGTCCAGCGCCAGAAATCGGCTTCTGCTCTGCTATATGGGGTTGGCTGCTG 97

Qy 61 CTCCACGGTGTATGAGCCCTGGAGGCCAGAGAAATCAGCGGTTTCGAGGGGACACT 120

Db 98 CTCCACGGTGTATGAGCCCTGGAGGCCAGAGAAATCAGCGGTTTCGAGGGGACACT 157

Qy 121 GTGTCCCTGCACTCAGGGAAGAGCTGAGGGACACACCGGAAGTACTGGTGAGG 180

Db 158 GTGTCCCTGCACTCAGGGAAGAGCTGAGGGGACACACCGGAAGTACTGGTGAGG 217

Qy 181 AAGGGTGGGATCTCTTCTCTCGCTGCTTGTGGACCATCTATGACAGAGAGAGGCCAG 240

Job time : 10371 secs

This Page Blank (uspto)

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: September 13, 2004, 11:10:51 ; Search time 974 Seconds
(without alignments)
11990.038 Million cell updates/sec

Title: US-10-017-081A-215

Perfect score: 2749

Sequence: 1 cttccacggtgtccagccgcccc.....ctgcataaaaaaaaaa 2749

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 3373863 seqs, 2124099041 residues

Total number of hits satisfying chosen parameters: 6747726

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1500 summaries

Database :

N_Geneseq_29Jan04:*

1: Geneseqn1980s:*

2: Geneseqn1990s:*

3: Geneseqn2000s:*

4: Geneseqn2001s:*

5: Geneseqn2001bs:*

6: Geneseqn2002s:*

7: Geneseqn2003as:*

8: Geneseqn2003bs:*

9: Geneseqn2003cs:*

10: Geneseqn2004s:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2747	99.9	2749	3	AAA99905 cDNA enco
2	2747	99.9	2749	3	AAA88517 Human PRO
3	2747	99.9	2749	3	AAC78503 Human PRO
4	2747	99.9	2749	4	AAS21436 Human CDN
5	2747	99.9	2749	5	AAF44269 Human PRO
6	2747	99.9	2749	5	ABL88101 Human PRO
7	2747	99.9	2749	6	ABL95590 Human ang
8	2747	99.9	2749	7	ABL78063 Human PRO
9	2747	99.9	2749	7	ABX80475 Human sec
10	2747	99.9	2749	7	ACA69381 Human CDN
11	2747	99.9	2749	7	ACD24045 Novel hum
12	2747	99.9	2749	7	ABX90452 Human sec
13	2747	99.9	2749	7	ACD42606 Novel hum
14	2747	99.9	2749	7	ABX64298 cDNA enco
15	2747	99.9	2749	7	ACA67186 cDNA enco
16	2747	99.9	2749	7	ACA63641 Novel hum
17	2747	99.9	2749	7	ACA64520 Novel hum
18	2747	99.9	2749	7	ACA03795 cDNA enco
19	2747	99.9	2749	7	ACA71805 Human sec
20	2747	99.9	2749	7	ABX89333 DNA encod
21	2747	99.9	2749	7	ABX92445 cDNA enco
22	2747	99.9	2749	7	ABX80979 Human sec
23	2747	99.9	2749	7	ACD44488 cDNA enco

24	2747	99.9	2749	7	ACD41987	ACD41987 Human sec
25	2747	99.9	2749	7	ACA66186	ACA66186 Human CDN
26	2747	99.9	2749	7	ABX79659	ABX79659 Human sec
27	2747	99.9	2749	7	ACA93680	ACA93680 Novel hum
28	2747	99.9	2749	7	ABX81362	ABX81362 Human sec
29	2747	99.9	2749	7	ACA04216	ACA04216 Human CDN
30	2747	99.9	2749	7	ACA93178	ACA93178 Novel hum
31	2747	99.9	2749	7	ABX17262	ABX17262 Human PRO
32	2747	99.9	2749	8	ACA68117	ACA68117 Novel hum
33	2747	99.9	2749	8	ACA88566	ACA88566 Human sec
34	2747	99.9	2749	8	ACD82073	ACD82073 cDNA enco
35	2747	99.9	2749	8	ADA45904	ADA45904 Novel hum
36	2747	99.9	2749	8	ADA76335	ADA76335 Human PRO
37	2747	99.9	2749	8	ADA18985	ADA18985 Human PRO
38	2747	99.9	2749	8	ADA61608	ADA61608 Homo sapi
39	2747	99.9	2749	8	ADB19393	ADB19393 Novel hum
40	2747	99.9	2749	8	ADB27934	ADB27934 cDNA enco
41	2747	99.9	2749	8	ADA86413	ADA86413 Novel hum
42	2747	99.9	2749	8	ADB15977	ADB15977 Human PRO
43	2747	99.9	2749	8	ADA38027	ADA38027 Human CDN
44	2747	99.9	2749	8	ADA47763	ADA47763 Human PRO
45	2747	99.9	2749	8	ADA21713	ADA21713 Human CDN
46	2747	99.9	2749	8	ADA10500	ADA10500 Human CDN
47	2747	99.9	2749	8	ADA67558	ADA67558 Human PRO
48	2747	99.9	2749	8	ADB30565	ADB30565 cDNA enco
49	2747	99.9	2749	8	ADA85861	ADA85861 Novel hum
50	2747	99.9	2749	8	ADA18044	ADA18044 cDNA enco
51	2747	99.9	2749	8	ADA97073	ADA97073 Human PRO
52	2747	99.9	2749	8	ADA79377	ADA79377 Human PRO
53	2747	99.9	2749	8	ADA87516	ADA87516 Novel hum
54	2747	99.9	2749	8	ADB16718	ADB16718 Human PRO
55	2747	99.9	2749	8	ADA28152	ADA28152 Human CDN
56	2747	99.9	2749	8	ADA91810	ADA91810 Novel hum
57	2747	99.9	2749	8	ADB14873	ADB14873 Human PRO
58	2747	99.9	2749	8	ADA24754	ADA24754 Novel hum
59	2747	99.9	2749	8	ADB18834	ADB18834 Novel hum
60	2747	99.9	2749	8	ADA94049	ADA94049 Human PRO
61	2747	99.9	2749	8	ADB119945	ADB119945 Novel hum
62	2747	99.9	2749	8	ADB13257	ADB13257 Human PRO
63	2747	99.9	2749	8	ACD98616	ACD98616 Novel hum
64	2747	99.9	2749	8	ACD29787	ACD29787 Novel hum
65	2747	99.9	2749	8	ADA12415	ADA12415 Human CDN
66	2747	99.9	2749	8	ADA94732	ADA94732 Human CDN
67	2747	99.9	2749	8	ADA74511	ADA74511 Human PRO
68	2747	99.9	2749	8	ADB24744	ADB24744 Human PRO
69	2747	99.9	2749	8	ADA82268	ADA82268 Human PRO
70	2747	99.9	2749	8	ADA75231	ADA75231 Human PRO
71	2747	99.9	2749	8	ADA85309	ADA85309 Novel hum
72	2747	99.9	2749	8	ADA84757	ADA84757 Novel hum
73	2747	99.9	2749	8	ADB30013	ADB30013 cDNA enco
74	2747	99.9	2749	8	ADA80541	ADA80541 Human PRO
75	2747	99.9	2749	8	ADA75783	ADA75783 Human PRO
76	2747	99.9	2749	8	ADA38957	ADA38957 Human CDN
77	2747	99.9	2749	8	ADA47008	ADA47008 Human PRO
78	2747	99.9	2749	8	ADB25304	ADB25304 Human PRO
79	2747	99.9	2749	8	ADA93480	ADA93480 Human PRO
80	2747	99.9	2749	8	ADB26830	ADB26830 cDNA enco
81	2747	99.9	2749	8	ADB31117	ADB31117 cDNA enco
82	2747	99.9	2749	8	ADA93078	ADA93078 Human CDN
83	2747	99.9	2749	8	ADA61045	ADA61045 Homo sapi
84	2747	99.9	2749	8	ADB24192	ADB24192 Human PRO
85	2747	99.9	2749	8	ADA96521	ADA96521 Human PRO
86	2747	99.9	2749	8	ADA81093	ADA81093 Human PRO
87	2747	99.9	2749	8	ADA95969	ADA95969 Human PRO
88	2747	99.9	2749	8	ADB26278	ADB26278 cDNA enco
89	2747	99.9	2749	8	ADB21763	ADB21763 Novel hum
90	2747	99.9	2749	8	ADA77542	ADA77542 Human PRO
91	2747	99.9	2749	8	ADB18282	ADB18282 cDNA enco
92	2747	99.9	2749	8	ADA86965	ADA86965 Novel hum
93	2747	99.9	2749	8	ADA88068	ADA88068 Novel hum
94	2747	99.9	2749	8	ADA46456	ADA46456 Novel hum
95	2747	99.9	2749	8	ADB28486	ADB28486 cDNA enco
96	2747	99.9	2749	8	ADB28486	ADB28486 cDNA enco

97	2747	99.9	2749	8	ADB29038	AdB29038 cDNA enco	170	2747	99.9	2749	9	ADC82706	AdC82706 Human PRO
98	2747	99.9	2749	8	ACH65634	ACH65634 Human CDN	171	2747	99.9	2749	9	ADC80570	AdC80570 Novel hum
99	2747	99.9	2749	8	ADA76990	Ada76990 Human PRO	172	2747	99.9	2749	9	ADD11077	AdD11077 Human PRO
100	2747	99.9	2749	8	ADA22639	Ada22639 Human CDN	173	2747	99.9	2749	9	ADD10348	AdD10348 Human sec
101	2747	99.9	2749	8	ADA88620	Ada88620 Novel hum	174	2747	99.9	2749	9	ADC47958	AdC47958 Human PRO
102	2747	99.9	2749	8	ADA97625	Ada97625 Human PRO	175	2747	99.9	2749	9	ADC08886	AdC08886 Novel hum
103	2747	99.9	2749	8	ADB27382	AdB27382 cDNA enco	176	2747	99.9	2749	9	ADC80018	AdC80018 Novel hum
104	2747	99.9	2749	8	ADB22315	AdB22315 Novel hum	177	2747	99.9	2749	9	ADD07135	AdD07135 Novel hum
105	2747	99.9	2749	8	ADA39624	Ada39624 Human PRO	178	2747	99.9	2749	9	ADD11308	AdD11308 Human sec
106	2747	99.9	2749	8	ADA06805	Ada06805 Human sec	179	2747	99.9	2749	9	ADD09487	AdD09487 Human PRO
107	2747	99.9	2749	8	ADA39498	Ada39498 Human CDN	180	2747	99.9	2749	9	ADC83382	AdC83382 Human PRO
108	2747	99.9	2749	8	ADA67006	Ada67006 Human PRO	181	2747	99.9	2749	9	ADD41200	AdD41200 Novel hum
109	2747	99.9	2749	8	ADB22867	AdB22867 Human PRO	182	2747	99.9	2749	9	ADD52339	AdD52339 cDNA enco
110	2747	99.9	2749	8	ADB23640	AdB23640 Human PRO	183	2747	99.9	2749	9	ADD53079	AdD53079 cDNA enco
111	2747	99.9	2749	8	ADA92362	Ada92362 Novel hum	184	2747	99.9	2749	9	ADD53631	AdD53631 Novel hum
112	2747	99.9	2749	8	ADB15425	AdB15425 Human PRO	185	2747	99.9	2749	9	ADD55489	AdD55489 Human PRO
113	2747	99.9	2749	8	ADB38677	AdB38677 Novel hum	186	2747	99.9	2749	9	ADD37101	AdD37101 Human sec
114	2747	99.9	2749	8	ADB96524	AdB96524 Human PRO	187	2747	99.9	2749	9	ADD56447	AdD56447 Human PRO
115	2747	99.9	2749	8	ADB38125	AdB38125 Novel hum	188	2747	99.9	2749	9	ADD51787	AdD51787 cDNA enco
116	2747	99.9	2749	8	ADB66597	AdB66597 Novel hum	189	2747	99.9	2749	9	ADD02586	AdD02586 Human PRO
117	2747	99.9	2749	8	ADB89677	AdB89677 Human PRO	190	2747	99.9	2749	9	ADD02020	AdD02020 Human PRO
118	2747	99.9	2749	9	ADB90409	AdB90409 Human PRO	191	2747	99.9	2749	9	ADD54202	AdD54202 Novel hum
119	2747	99.9	2749	9	ADB39510	AdB39510 Novel hum	192	2747	99.9	2749	9	ADD54885	AdD54885 Human PRO
120	2747	99.9	2749	9	ADB73721	AdB73721 Human PRO	193	2747	99.9	2749	9	ADD92519	AdD92519 Human CDN
121	2747	99.9	2749	9	ADB47133	AdB47133 Novel hum	194	2747	99.9	2749	9	ADD92519	AdD92519 Human PRO
122	2747	99.9	2749	9	ADB86740	AdB86740 Human PRO	195	2747	99.9	2749	9	ADD91415	AdD91415 Human PRO
123	2747	99.9	2749	9	ADB76437	AdB76437 Human PRO	196	2747	99.9	2749	9	ADE04029	AdE04029 Human PRO
124	2747	99.9	2749	9	ADB77345	AdB77345 Novel hum	197	2747	99.9	2749	9	ADE31904	AdE31904 Human CDN
125	2747	99.9	2749	9	ADB34502	AdB34502 Human PRO	198	2747	99.9	2749	9	ADE27039	AdE27039 Novel hum
126	2747	99.9	2749	9	ADB35606	AdB35606 Human PRO	199	2747	99.9	2749	9	ADE32326	AdE32326 Novel hum
127	2747	99.9	2749	9	ADB33950	AdB33950 Human PRO	200	2747	99.9	2749	9	ADE22258	AdE22258 cDNA enco
128	2747	99.9	2749	9	ADB35054	AdB35054 Human PRO	201	2747	99.9	2749	9	ADD79482	AdD79482 cDNA enco
129	2747	99.9	2749	9	ADB36158	AdB36158 Human PRO	202	2747	99.9	2749	9	ADE35303	AdE35303 Human CDN
130	2747	99.9	2749	9	ADB46553	AdB46553 Novel hum	203	2747	99.9	2749	9	ADE16417	AdE16417 Human CDN
131	2747	99.9	2749	9	ADC43863	AdC43863 Human CDN	204	2747	99.9	2749	9	ADD73032	AdD73032 Human CDN
132	2747	99.9	2749	9	ADC57996	AdC57996 Human PRO	205	2747	99.9	2749	9	ADE42018	AdE42018 Human PRO
133	2747	99.9	2749	9	ADC53360	AdC53360 Human PRO	206	2747	99.9	2749	9	ADE17835	AdE17835 Human PRO
134	2747	99.9	2749	9	ADC12227	AdC12227 Human CDN	207	2747	99.9	2749	9	ADD91967	AdD91967 Human PRO
135	2747	99.9	2749	9	ADC61623	AdC61623 Human CDN	208	2747	99.9	2749	9	ADE33430	AdE33430 Novel hum
136	2747	99.9	2749	9	ADC33587	AdC33587 Human CDN	209	2747	99.9	2749	9	ADE33982	AdE33982 Novel hum
137	2747	99.9	2749	9	ADC66687	AdC66687 Human CDN	210	2747	99.9	2749	9	ADD80034	AdD80034 cDNA enco
138	2747	99.9	2749	9	ADC56649	AdC56649 Human PRO	211	2747	99.9	2749	9	ADD93071	AdD93071 Human PRO
139	2747	99.9	2749	9	ADC68811	AdC68811 Human CDN	212	2747	99.9	2749	9	ADD72390	AdD72390 Human CDN
140	2747	99.9	2749	9	ADC62871	AdC62871 Human CDN	213	2747	99.9	2749	9	ADE19491	AdE19491 Human PRO
141	2747	99.9	2749	9	ADC67936	AdC67936 Human CDN	214	2747	99.9	2749	9	ADE18939	AdE18939 Human PRO
142	2747	99.9	2749	9	ADC11694	AdC11694 Human CDN	215	2747	99.9	2749	9	ADE43135	AdE43135 Human PRO
143	2747	99.9	2749	9	ADC41256	AdC41256 Human CDN	216	2747	99.9	2749	9	ADD95924	AdD95924 Human PRO
144	2747	99.9	2749	9	ADC67311	AdC67311 Human CDN	217	2747	99.9	2749	9	ADE22810	AdE22810 cDNA enco
145	2747	99.9	2749	9	ADC62247	AdC62247 Human CDN	218	2747	99.9	2749	9	ADD78928	AdD78928 cDNA enco
146	2747	99.9	2749	9	ADC41880	AdC41880 Human CDN	219	2747	99.9	2749	9	ADE26506	AdE26506 Novel hum
147	2747	99.9	2749	9	ADC50425	AdC50425 Novel hum	220	2747	99.9	2749	9	ADE32878	AdE32878 Novel hum
148	2747	99.9	2749	9	ADC71973	AdC71973 Novel hum	221	2747	99.9	2749	9	ADE42570	AdE42570 Human PRO
149	2747	99.9	2749	9	ADC59952	AdC59952 Novel hum	222	2747	99.9	2749	9	ADE17041	AdE17041 Human CDN
150	2747	99.9	2749	9	ADC52959	AdC52959 Novel hum	223	2747	99.9	2749	9	ADD80586	AdD80586 cDNA enco
151	2747	99.9	2749	9	ADC57313	AdC57313 Novel hum	224	2747	99.9	2749	9	ADD89614	AdD89614 Human PRO
152	2747	99.9	2749	9	ADC60504	AdC60504 Novel hum	225	2747	99.9	2749	9	ADE40898	AdE40898 Human PRO
153	2747	99.9	2749	9	ADC50979	AdC50979 Novel hum	226	2747	99.9	2749	9	ADE04697	AdE04697 Human PRO
154	2747	99.9	2749	9	ADC65506	AdC65506 Human PRO	227	2747	99.9	2749	10	ADC61122	AdC61122 Novel hum
155	2747	99.9	2749	9	ADC54604	AdC54604 Novel hum	228	2747	99.9	2749	10	ADD76570	AdD76570 Human PRO
156	2747	99.9	2749	9	ADC53565	AdC53565 Novel hum	229	2747	99.9	2749	10	ADD87934	AdD87934 Human PRO
157	2747	99.9	2749	9	ADC59088	AdC59088 Novel hum	230	2747	99.9	2749	10	ADD86338	AdD86338 Human PRO
158	2747	99.9	2749	9	ADC55966	AdC55966 Novel hum	231	2747	99.9	2749	10	ADE75786	AdE75786 Human PRO
159	2747	99.9	2749	9	ADC58536	AdC58536 Novel hum	232	2747	99.9	2749	10	AD848549	AdE48549 Human CDN
160	2747	99.9	2749	9	ADC14816	AdC14816 Novel hum	233	2747	99.9	2749	10	AD841309	AdE41309 Human sec
161	2747	99.9	2749	9	ADD08348	AdD08348 Novel hum	234	2747	99.9	2749	10	ADE23362	AdE23362 cDNA enco
162	2747	99.9	2749	9	ADD03210	AdD03210 Novel hum	235	2747	99.9	2749	10	ADE23914	AdE23914 cDNA enco
163	2747	99.9	2749	9	ADC90202	AdC90202 Novel hum	236	2747	99.9	2749	10	ADD24557	AdD24557 cDNA enco
164	2747	99.9	2749	9	ADC82173	AdC82173 Human PRO	237	2747	99.9	2749	10	ADD87382	AdD87382 Human PRO
165	2747	99.9	2749	9	ADC69621	AdC69621 cDNA enco	238	2747	99.9	2749	10	AD889248	AdE89248 Human PRO
166	2747	99.9	2749	9	ADC48510	AdC48510 Human PRO	239	2747	99.9	2749	10	AD818387	AdE18387 Human PRO
167	2747	99.9	2749	9	ADD10039	AdD10039 Human PRO	240	2747	99.9	2749	10	AD88696	AdE88696 Human PRO
168	2747	99.9	2749	9	ADD07815	AdD07815 Novel hum	241	2747	99.9	2749	10	AD889650	AdE89650 Human CDN
169	2747	99.9	2749	9	ADD04614	AdD04614 Novel hum	242	2747	99.9	2749	10	Az34073	Aaz34073 Human PRO

243	1679.6	61.1	1987	3	AA93127	Human sec	211.8	7.7	849	4	AAH33054	Human col
244	905.8	33.0	974	6	ADB36355	Human imm	211.6	7.7	6418	4	AAK80271	Human imm
245	745.2	27.1	1060	6	ABZ11340	Human pol	211.6	7.7	17324	4	AAK05039	Human rep
246	694.4	25.3	1111	6	ABS67809	Human bre	211.6	7.7	17324	4	ABL97932	Human tes
247	653	23.8	667	6	ABT10733	Human rec	211.6	7.7	40645	7	ABX61804	Genomic D
248	495.4	18.0	576	8	ACH27482	Human adu	211.6	7.7	40645	8	ADA49717	Genomic D
249	444.6	16.2	459	3	AAA88530	cDNA clon	211.2	7.7	50000	8	ADB16926	Human DYX
250	408.8	14.9	962	9	ADB36351	Human imm	211	7.7	2544	4	AAH14059	Human CDN
251	394.4	14.3	942	9	ADD94822	Human TRE	211	7.7	35651	9	AAF57595	ATM compl
252	394.4	14.3	993	9	ADD94821	Human TRE	211	7.7	300000	9	ADB63552	Human PTP
253	277.8	10.1	294	7	ABZ19015	Group III	210.8	7.7	6096	6	ABK92513	Human pro
254	222.4	8.1	24843	6	BA517764	Human Gen	210.8	7.7	25971	4	ABK92513	Human pro
255	219.8	8.0	3480	4	AAK66072	Human imm	210.8	7.7	109906	6	ABK94411	DNA encod
256	219.8	8.0	3480	4	AAK66073	Human imm	210.4	7.7	10252	4	AAK90931	Human dig
257	219.8	8.0	3480	4	AAK73229	Human imm	210.4	7.7	10252	5	AAK91966	Human liv
258	219.8	8.0	3480	4	AAK73228	Human imm	210.4	7.7	10252	6	ABN90321	Human liv
259	218.6	8.0	11470	4	AA541754	Genomic s	210.2	7.6	1743	4	AAI62586	Human bre
260	218.4	7.9	59588	9	ADC87426	Human GPC	210.2	7.6	1743	4	AAI62586	Human bre
261	217	7.9	12149	4	AA536758	Human car	210.2	7.6	1746	4	AAI62587	Human bre
262	217	7.9	12149	9	ADB47452	Human car	210.2	7.6	1746	4	AAI62587	Human bre
263	216.8	7.9	23434	7	ACC00503	Human his	210.2	7.6	5281	4	AAI05101	Human rep
264	216.2	7.9	110000	6	ABA90193	Continuation (2 of	210.2	7.6	5281	4	ABL97994	Human tes
265	216.2	7.9	110000	6	ABQ87681	Continuation (2 of	210.2	7.6	5284	4	ABL97994	Human tes
266	216.2	7.9	110000	7	ABX33717	Continuation (2 of	210.2	7.6	5284	4	ABL97993	Human tes
267	216.2	7.9	110000	9	ADB81391	Partial g	210.2	7.6	19167	4	AAI05340	Human rep
268	216	7.9	44848	3	AAA75080	Human rep	210.2	7.6	19167	4	ABL98209	Human tes
269	216	7.9	174424	6	ABL68122	Ovary can	210.2	7.6	19167	5	ABA19101	Human ner
270	215.8	7.9	17590	3	AAZ50904	Human TBC	210.2	7.6	32195	5	AAZ50904	Human DNA
271	215.6	7.8	78539	7	ACA64942	Human FRA	210.2	7.6	32195	6	AB567535	Novel hum
272	215.2	7.8	143306	6	ABK49586	Human tra	210.2	7.6	201239	7	ACA64924	Human PLZ
273	215	7.8	27154	4	AAI05708	Human rep	210	7.6	8003	4	AAK81410	Human imm
274	215	7.8	27154	6	ABK3497	Human rep	210	7.6	32249	4	AAI03071	Human rep
275	214.8	7.8	22481	6	AAI11658	PDGF full	210	7.6	32249	4	ABL97407	Human tes
276	214.8	7.8	22484	6	ABA98882	Nucleotid	210	7.6	32249	5	ABA15833	Human ner
277	214.8	7.8	22484	6	ABA05882	Angiogene	210	7.6	65464	6	ABX13172	Human gen
278	214.8	7.8	22484	6	ABQ88196	Human osc	209.8	7.6	40267	6	ABX18958	Human cad
279	214.8	7.8	22484	6	ABN96844	Gene #334	209.8	7.6	40267	7	ACC69655	Human CLA
280	214.6	7.8	14581	9	AB57267	Partial s	209.8	7.6	44848	3	AAI75080	Nucleotid
281	214.6	7.8	14581	9	ADB99091	Human ret	209.6	7.6	119950	2	AAI75080	Human yes
282	214	7.8	30110	4	AAK89230	Human dig	209.4	7.6	43543	6	ABQ82235	Human pho
283	213.8	7.8	7849	2	AAQ94109	bHL genom	209.2	7.6	87350	2	AAK83003	Human WRN
284	213.6	7.8	5367	5	AA580633	DNA encod	209.2	7.6	240000	7	ACD13446	Human DNA
285	213.2	7.8	99957	8	ADA03032	Human MCG	209	7.6	4823	2	AAI7384	Human thr
286	213.2	7.8	99957	9	ADB72770	Human CA	209	7.6	5952	9	ADB54002	PCNA geno
287	213.2	7.8	99957	9	ADB72770	Human CA	209	7.6	5952	9	ADB54002	PCNA geno
288	213	7.7	13865	2	AAV40401	Human tis	209	7.6	96595	8	ADA02726	Human SYK
289	213	7.7	13865	2	AAZ32165	Human cho	209	7.6	96595	8	ADB72464	Human SYK
290	213	7.7	13865	7	ABZ71985	Human tis	208.8	7.6	1757	4	AAK82230	Human imm
291	212.8	7.7	601	7	ABX61865	Novel hum	208.8	7.6	37783	4	AAK70780	Human imm
292	212.6	7.7	68355	7	ACF62737	Cancer ba	208.8	7.6	37783	4	AAK76625	Human imm
293	212.6	7.7	68355	7	ADB20852	MRP1 base	208.8	7.6	37783	4	AAK80913	Human imm
294	212.6	7.7	68355	9	ADB87941	Human UGT	208.8	7.6	44096	9	ADB68445	Human DCA
295	212.6	7.7	68355	9	ADB86924	Human MDR	208.6	7.6	48436	6	ABN89533	Human cor
296	212.6	7.7	68355	9	ADB92115	Human MDR	208.6	7.6	1446	4	AAH44758	Human DNA
297	212.6	7.7	186591	7	ACF62750	Cancer ba	208.6	7.6	44211	4	AAK85974	Human imm
298	212.6	7.7	186591	7	ADB20869	MRP1 base	208.6	7.6	96594	8	ADC85476	Human Mef
299	212.6	7.7	186591	9	ADB87958	Human UGT	208.6	7.6	96595	8	ADA02996	Human Mef
300	212.6	7.7	186591	9	ADB86941	Human MDR	208.6	7.6	106286	6	AB553320	Continuation (5 of
301	212.6	7.7	186591	9	ADB92132	Human MDR	208.6	7.6	164702	7	ACF62730	Cancer ba
302	212.6	7.7	208648	7	ACF62735	Cancer ba	208.6	7.6	164702	7	ACF62730	MRP1 base
303	212.6	7.7	208648	7	ACF62740	Cancer ba	208.6	7.6	164702	9	ADB7934	Human UGT
304	212.6	7.7	208648	7	ADB20850	MRP1 base	208.6	7.6	164702	9	ADB96917	Human MDR
305	212.6	7.7	208648	7	ADB20855	MRP1 base	208.6	7.6	164702	9	ADB92108	Human MDR
306	212.6	7.7	208648	9	ADB87944	Human UGT	208.4	7.6	4857	4	ABK43042	Genomic s
307	212.6	7.7	208648	9	ADB87939	Human UGT	208.4	7.6	4857	8	ADB61198	Connectiv
308	212.6	7.7	208648	9	ADB96922	Human MDR	208.4	7.6	10113	4	AA532838	Human gen
309	212.6	7.7	208648	9	ADB96927	Human MDR	208.4	7.6	11655	4	AA532839	Human gen
310	212.6	7.7	208648	9	ADB92113	Human MDR	208.4	7.6	183610	7	ACF62736	Cancer ba
311	212.6	7.7	208648	9	ADB92118	Human MDR	208.4	7.6	183610	7	ADB20851	MRP1 base
312	212.4	7.7	1596	3	AA53420	Human sec	208.4	7.6	183610	9	ADB87940	Human UGT
313	212.4	7.7	3121	6	ABK51416	cDNA enco	208.4	7.6	183610	9	ADB96923	Human MDR
314	212.4	7.7	14401	9	ADC53172	Human adu	208.4	7.6	183610	9	ADB92114	Human MDR
315	212	7.7	108316	9	ADC87336	Human GPC	208.2	7.6	2616	9	ADB62241	Human CDN

C 389	208.2	7.6	15547	4	AAK73540	Human imm	Aak73540	Human imm	462	206.8	7.5	12050	4	AAK73194	Human imm
C 390	208.2	7.6	15554	4	AAK73537	Human imm	Aak73537	Human imm	463	206.8	7.5	21784	7	ABX16008	Human nov
C 391	208.2	7.6	39328	6	ABL91800	Human lip	AbL91800	Human lip	464	206.8	7.5	21784	9	AAK62371	Human pro
C 392	208.2	7.6	100267	6	ABT11032	Human bre	Abt11032	Human bre	465	206.8	7.5	23169	5	ABAI5819	Human ner
C 393	208.2	7.6	260209	6	ABS56564	Human SUL	AbS56564	Human SUL	466	206.8	7.5	23172	5	ABAI5818	Human ner
C 394	208	7.6	10709	5	AAF97858	Human neu	Aaf97858	Human neu	C 467	206.6	7.5	2506	5	AAAD07713	Human sec
C 395	208	7.6	13646	5	AAF97857	Human neu	Aaf97857	Human neu	C 468	206.6	7.5	11790	4	AAK78997	Human imm
C 396	208	7.6	27681	4	AAK36498	Human car	AaK36498	Human car	C 469	206.6	7.5	12970	4	AAI05001	Human rep
C 397	208	7.6	27681	4	AAK36497	Human car	AaK36497	Human car	C 470	206.6	7.5	12970	4	ABL97894	Human tes
C 398	208	7.6	27681	4	AAK36497	Human car	AaK36497	Human car	C 471	206.6	7.5	15555	4	AAK73539	Human imm
C 399	208	7.6	27681	9	ADE47191	Human car	Ade47191	Human car	C 472	206.6	7.5	15558	4	AAK73538	Human imm
C 400	208	7.6	27681	9	ADE47192	Human car	Ade47192	Human car	C 473	206.6	7.5	18853	7	AAI51051	Human NAD
C 401	208	7.6	57248	6	ABK93563	Human cdn	AbK93563	Human cdn	C 474	206.6	7.5	19597	4	AAK78483	Human imm
C 402	208	7.6	106746	3	AAI10225	Human PCT	AaI10225	Human PCT	C 475	206.6	7.5	54548	3	AAZ45596	DNA seque
C 403	208	7.6	121162	3	AAK66548	Human kin	AaK66548	Human kin	C 476	206.4	7.5	560	4	AAH13458	Human CDN
C 404	207.8	7.6	1701	2	AAV83945	Bacterial	Aav83945	Bacterial	C 477	206.4	7.5	2286	4	AAH16720	Human CDN
C 405	207.8	7.6	11820	3	AAK95944	Human KTK	AaK95944	Human KTK	C 478	206.4	7.5	4334	4	AAK80614	Human imm
C 406	207.8	7.6	53332	6	AAI48890	Human PFT	AaI48890	Human PFT	C 479	206.4	7.5	13334	5	ABAI5786	Human ner
C 407	207.6	7.6	1767	9	ADB63552	Human cdn	Adb63552	Human cdn	C 480	206.4	7.5	38997	6	AAAD36069	Human sna
C 408	207.6	7.6	3125	9	ADB63201	Human cdn	Adb63201	Human cdn	C 481	206.2	7.5	43053	7	ABZ67535	Human sec
C 409	207.6	7.6	3143	4	AAAD05229	Human sec	Aad05229	Human sec	C 482	206.2	7.5	43053	7	ABZ73951	Secreted
C 410	207.6	7.6	14969	4	AAK78763	Human imm	AaK78763	Human imm	C 483	206.2	7.5	44354	4	AAK77833	Human imm
C 411	207.4	7.5	4513	4	AAK69446	Human imm	AaK69446	Human imm	C 484	206.2	7.5	44354	4	AAK77836	Human imm
C 412	207.4	7.5	4823	2	AAT03943	Human thr	Aat03943	Human thr	C 485	206.2	7.5	44354	4	AAK77837	Human imm
C 413	207.4	7.5	4823	2	AAT04051	Sequence	Aat04051	Sequence	C 486	206	7.5	7146	2	AAV38933	Nucleic a
C 414	207.4	7.5	4823	3	AAZ37785	Human thr	Aaz37785	Human thr	C 487	206	7.5	9745	9	AAK36759	Human car
C 415	207.4	7.5	4823	3	AAK51993	Human thr	AaK51993	Human thr	C 488	206	7.5	9745	9	AAK47453	Human car
C 416	207.4	7.5	27756	8	AAAD02570	Human Gat	Aad02570	Human Gat	C 489	206	7.5	10898	4	AAK86165	Human imm
C 417	207.4	7.5	27756	9	ADB72308	Human Gat	Adb72308	Human Gat	C 490	206	7.5	12392	5	ABAI5896	Human ner
C 418	207.4	7.5	52242	8	AAAD02666	Human MDM	Aad02666	Human MDM	C 491	206	7.5	15577	2	AAV35616	SHOX gene
C 419	207.4	7.5	52242	9	ADB72404	Human MDM	Adb72404	Human MDM	C 492	206	7.5	22813	4	AAK82016	Human imm
C 420	207.4	7.5	52242	9	ADB72404	Human MDM	Adb72404	Human MDM	C 493	206	7.5	22813	4	AAK86303	Human imm
C 421	207.4	7.5	59215	7	AAAD36834	Human tra	Aad36834	Human tra	C 494	206	7.5	22813	4	AAK65271	Human imm
C 422	207.4	7.5	220895	6	ABK84798	Human cdn	AbK84798	Human cdn	C 495	206	7.5	22813	4	AAK65271	Human imm
C 423	207.2	7.5	4026	4	AAI05213	Human rep	Aai05213	Human rep	C 496	206	7.5	32367	2	AAV35620	Human SHO
C 424	207.2	7.5	4026	4	ABL98096	Human tes	AbL98096	Human tes	C 497	205.8	7.5	2147	4	ABK42851	Genomic s
C 425	207.2	7.5	47999	6	AAK52898	Human tve	AaK52898	Human tve	C 498	205.8	7.5	2147	8	ADB61007	Connectiv
C 426	207.2	7.5	139399	6	ABK84795	Human cdn	AbK84795	Human cdn	C 499	205.8	7.5	2758	8	AAI58992	Human pol
C 427	207.2	7.5	139399	8	ADB70369	PAC 6802	Adb70369	PAC 6802	C 500	205.8	7.5	2758	8	ADB48974	Novel hum
C 428	207	7.5	645	4	AAI35660	Human mus	Aai35660	Human mus	C 501	205.8	7.5	2758	8	AAI02958	Human rep
C 429	207	7.5	683	4	AAI35660	cDNA enco	Aai35660	cDNA enco	C 502	205.8	7.5	23307	4	AAI02958	Human rep
C 430	207	7.5	683	4	AAI35691	Human mus	Aai35691	Human mus	C 503	205.8	7.5	23307	4	AAI02958	Human rep
C 431	207	7.5	683	7	ABX58679	cDNA enco	AbX58679	cDNA enco	C 504	205.8	7.5	23307	7	ADAI57698	BAC fragm
C 432	207	7.5	7661	4	AAI63983	Human nov	Aai63983	Human nov	C 505	205.8	7.5	23307	9	ADAI57698	BAC fragm
C 433	207	7.5	7661	4	AAI63983	Human nov	Aai63983	Human nov	C 506	205.8	7.5	23307	9	ADAI57698	BAC fragm
C 434	207	7.5	7661	4	AAI62954	Human gen	Aai62954	Human gen	C 507	205.8	7.5	23307	9	ADAI57698	BAC fragm
C 435	207	7.5	7661	6	ABS64135	Human apo	Abs64135	Human apo	C 508	205.8	7.5	36568	6	ABK50980	Human sol
C 436	207	7.5	7661	9	AAAD60444	Human sec	Aad60444	Human sec	C 509	205.8	7.5	47573	8	ADAI57698	BAC fragm
C 437	207	7.5	11696	4	AAI63984	Human nov	Aai63984	Human nov	C 510	205.8	7.5	47573	9	ADAI57698	BAC fragm
C 438	207	7.5	11696	4	AAI63984	Human nov	Aai63984	Human nov	C 511	205.8	7.5	95109	6	ABQ99654	Human mem
C 439	207	7.5	11696	4	AAI63984	Human nov	Aai63984	Human nov	C 512	205.8	7.5	95109	6	ABQ99654	Human mem
C 440	207	7.5	11696	4	AAI63984	Human nov	Aai63984	Human nov	C 513	205.8	7.5	133893	8	AAI58992	Human pol
C 441	207	7.5	11696	4	AAI63984	Human nov	Aai63984	Human nov	C 514	205.6	7.5	3417	4	AAH18467	Human CDN
C 442	207	7.5	11696	4	AAI63984	Human nov	Aai63984	Human nov	C 515	205.6	7.5	9620	4	AAI06207	Human rep
C 443	207	7.5	11696	4	AAI63984	Human nov	Aai63984	Human nov	C 516	205.6	7.5	12932	4	ABK42245	Genomic s
C 444	207	7.5	11696	4	AAI63984	Human nov	Aai63984	Human nov	C 517	205.6	7.5	12932	8	ADAI57698	BAC fragm
C 445	207	7.5	11696	4	AAI63984	Human nov	Aai63984	Human nov	C 518	205.6	7.5	29329	5	AAK70791	Human imm
C 446	207	7.5	11696	6	ABS64137	Human apo	Abs64137	Human apo	C 519	205.6	7.5	29329	5	AAK70791	Human imm
C 447	207	7.5	11696	6	ABS64137	Human apo	Abs64137	Human apo	C 520	205.6	7.5	29329	5	AAK70791	Human imm
C 448	207	7.5	11696	6	ABS64137	Human apo	Abs64137	Human apo	C 521	205.6	7.5	29329	5	AAK70791	Human imm
C 449	207	7.5	11696	9	AAAD60446	Human sec	Aad60446	Human sec	C 522	205.6	7.5	149480	6	ABL61947	Colon ade
C 450	207	7.5	45993	6	AAAD60446	Human sec	Aad60446	Human sec	C 523	205.6	7.5	149480	6	ABL61947	Colon ade
C 451	207	7.5	144792	9	ADC87620	Human GPC	Adc87620	Human GPC	C 524	205.6	7.5	149480	6	ABL61947	Colon ade
C 452	207	7.5	34981	9	ADC87620	Human GPC	Adc87620	Human GPC	C 525	205.6	7.5	203654	7	ABX16034	Human gen
C 453	206.8	7.5	2786	4	AAH17600	Human cdn	Aah17600	Human cdn	C 526	205.6	7.5	235033	2	AAV57926	Hereditar
C 454	206.8	7.5	4361	4	AAH17194	Human imm	Aah17194	Human imm	C 527	205.4	7.5	1735	4	AAI04953	Human rep
C 455	206.8	7.5	7654	4	AAI63985	Genomic s	Aai63985	Genomic s	C 528	205.4	7.5	1735	4	AAI04953	Human rep
C 456	206.8	7.5	7654	4	AAI63985	Genomic s	Aai63985	Genomic s	C 529	205.4	7.5	1987	6	ABX17316	Human tes
C 457	206.8	7.5	7654	4	AAI63985	Genomic s	Aai63985	Genomic s	C 530	205.4	7.5	4453	4	ABK43174	Human can
C 458	206.8	7.5	7654	4	AAI63985	Genomic s	Aai63985	Genomic s	C 531	205.4	7.5	5363	4	AAK65623	Human imm
C 459	206.8	7.5	7654	5	ABA20642	Human ner	Aba20642	Human ner	C 532	205.4	7.5	11426	4	AAK84781	Human imm
C 460	206.8	7.5	7654	5	ABA20643	Human ner	Aba20643	Human ner	C 533	205.4	7.5	165199	6	ABK83460	Human THB
C 461	206.8	7.5	10396	4	AAK86119	Human imm	AaK86119	Human imm	C 534	205.4	7.5	175561	7	AAK55694	Human THB

535	205.2	7.5	4077	4	AAK69605	Aak69605 Human imm	608	204.2	7.4	107820	4	AA16230	Aad16230 Human ATP
536	205.2	7.5	4077	4	AAK69603	Aak69603 Human imm	C 609	204.2	7.4	122748	6	ABT10719	Abt10719 Human bre
537	205.2	7.5	8996	7	ADA41630	Ada41630 Human sec	C 610	204.2	7.4	172984	7	ACF62733	Acf62733 Cancer ba
538	205.2	7.5	8996	7	ACC50939	Acc50939 Human sec	611	204.2	7.4	172984	7	ADB20848	Adb20848 MRP1 base
539	205.2	7.5	8996	7	ABZ71537	Abz71537 Secreted	612	204.2	7.4	172984	9	ADB87937	Adb87937 Human UGT
540	205.2	7.5	8996	8	ADB91908	Adb91908 Human sec	613	204.2	7.4	172984	9	ADB86920	Adb86920 Human MDR
541	205.2	7.5	8996	9	ADC74700	Adc74700 Human sec	614	204.2	7.4	172984	9	ADB92111	Adb92111 Human MDR
542	205.2	7.5	32190	4	AAK89112	Aak89112 Human dig	C 615	204	7.4	1841	2	AZ27262	Aaz27262 Human sec
543	205.2	7.5	32190	5	AAK31862	Aas31862 Human liv	616	204	7.4	15306	4	AA107531	Aal107531 Human rep
544	205.2	7.5	32190	6	ABN90217	Abn90217 Human liv	617	204	7.4	20530	4	AA105564	Aal105564 Human rep
545	205	7.5	3822	4	AAK82722	Aak82722 Human imm	C 618	204	7.4	20530	4	AAK32913	Aas32913 Human gen
546	205	7.5	5560	6	AAK98044	Aas98044 Human DNA	619	204	7.4	47319	4	AAK72230	Aak72230 Human imm
547	205	7.5	6122	7	ABZ42694	Abz42694 Human met	620	204	7.4	47319	4	AAK64813	Aak64813 Human imm
548	205	7.5	11627	4	AA107363	Aal107363 Human rep	C 621	204	7.4	51469	4	AAK78813	Aak78813 Human imm
549	205	7.5	11627	4	ABL98832	Ab198832 Human tes	C 622	204	7.4	51469	4	AAK70270	Aak70270 Human imm
550	205	7.5	14012	7	AA105004	Aad105004 Human Ras	C 623	204	7.4	51469	4	AAK69322	Aak69322 Human imm
551	205	7.5	16062	4	AA105359	Aal105359 Human rep	C 624	204	7.4	58822	8	ADA02540	Ada02540 Human TCO
552	205	7.5	16062	4	ABL98228	Ab198228 Human tes	C 625	204	7.4	58822	8	ADB72278	Adb72278 Human TCO
553	205	7.5	55235	4	AAK67426	Aak67426 Human imm	C 626	204	7.4	59554	8	ADA02696	Ada02696 Human TK2
554	205	7.5	110000	8	ADA13411	Ad continuation (3 of	C 627	204	7.4	59554	9	ADB72434	Adb72434 Human TK2
555	205	7.5	143306	6	ABK49586	Abk49586 Human tra	C 628	204	7.4	236303	4	AAH11614	Aah11614 Human gen
556	205	7.5	160552	4	AAK02697	Aad02697 Human gly	C 629	203.8	7.4	2124	4	AAH18410	Aah18410 Human CDN
557	204.8	7.4	786	4	AAH98887	Aah98887 Human EST	630	203.8	7.4	2547	9	ADB62665	Adb62665 Human CDN
558	204.8	7.4	6319	6	ABK97631	Abk97631 Human pro	C 631	203.8	7.4	5990	4	AAK67673	Aak67673 Human imm
559	204.8	7.4	7703	4	AAK90904	Aak90904 Human dig	C 632	203.8	7.4	15515	7	AA153548	Aal153548 Genomic D
560	204.8	7.4	7703	4	AAK90945	Aak90945 Human dig	C 633	203.8	7.4	28818	7	AA135901	Aal135901 Human mus
561	204.8	7.4	7703	5	AAK31980	Aas31980 Human liv	C 634	203.8	7.4	28818	7	ABX58889	Abx58889 cDNA enco
562	204.8	7.4	7703	5	AAK31939	Aas31939 Human liv	635	203.8	7.4	51469	4	AAK78813	Aak78813 Human imm
563	204.8	7.4	7703	6	AAK90335	Abn90335 Human liv	636	203.8	7.4	51469	4	AAK70270	Aak70270 Human imm
564	204.8	7.4	7703	6	ABN90294	Abn90294 Human liv	637	203.8	7.4	51469	4	AAK69322	Aak69322 Human imm
565	204.8	7.4	55827	7	ABX13671	Abx13671 Human pro	C 638	203.8	7.4	107818	8	AA157572	Aal157572 Human pho
566	204.8	7.4	55827	7	ACA60949	Ac60949 DNA encod	C 639	203.8	7.4	122888	6	ABK83569	Abk83569 Human CDN
567	204.8	7.4	78539	7	ACA64942	Ac64942 Human FRA	C 640	203.6	7.4	4412	4	AAH57372	Aah57372 Human hea
568	204.6	7.4	1413	3	AD000684	Aad00684 Human Hyd	641	203.6	7.4	5088	4	AAK36260	Aas36260 Human car
569	204.6	7.4	6892	4	AA137405	Aal137405 Human mus	C 642	203.6	7.4	5088	4	AA162690	Aai62690 Human bre
570	204.6	7.4	6892	7	ABX60393	Abx60393 cDNA enco	C 643	203.6	7.4	5088	4	AAK72344	Aak72344 Human imm
571	204.6	7.4	13968	4	AAK36724	Aas36724 Human car	C 644	203.6	7.4	5088	4	AAK67935	Aak67935 Human imm
572	204.6	7.4	13968	9	ADE47418	Ade47418 Human car	C 645	203.6	7.4	5088	4	AAK76893	Aak76893 Human imm
573	204.6	7.4	29163	4	AA105121	Aal105121 Human rep	C 646	203.6	7.4	5088	4	AAK06809	Aal06809 Human rep
574	204.6	7.4	29163	4	ABL98013	Ab198013 Human tes	647	203.6	7.4	5088	4	AA102935	Aal02935 Human rep
575	204.6	7.4	30393	4	AAK67239	Aak67239 Human imm	648	203.6	7.4	5088	4	AA103696	Aal03696 Human rep
576	204.6	7.4	39325	4	AAK81660	Aak81660 Human imm	649	203.6	7.4	5088	4	ABA07879	Aba07879 Human ova
577	204.6	7.4	40645	7	ABX61804	Abx61804 Genomic D	650	203.6	7.4	5088	5	ABA18124	Abal18124 Human ner
578	204.6	7.4	40645	8	ADA49717	Ada49717 Genomic D	651	203.6	7.4	5088	7	ABZ68072	Abz68072 Human sec
579	204.6	7.4	43056	7	ABZ67534	Abz67534 Human sec	652	203.6	7.4	5088	7	ABZ74538	Abz74538 Secreted
580	204.6	7.4	43056	7	ABZ73950	Abz73950 Secreted	653	203.6	7.4	5088	7	ADA98933	Ada98933 Human sec
581	204.6	7.4	96595	8	ADA02726	Ada02726 Human SYK	654	203.6	7.4	5088	7	ADA44537	Ada44537 Human sec
582	204.6	7.4	96595	9	ADB72464	Adb72464 Human SYK	655	203.6	7.4	5088	9	ADA6954	Ade6954 Human car
583	204.6	7.4	108316	9	ADC87336	Adc87336 Human GPC	656	203.6	7.4	5088	9	AAK66517	Aak66517 Human imm
584	204.6	7.4	110000	7	ABZ79565	Abz79565 CLID8 and	C 657	203.6	7.4	27869	5	ABA19635	Abal19635 Human ner
585	204.6	7.4	149671	6	ABK84797	Abk84797 Human CDN	658	203.6	7.4	27869	5	AAK19635	Aal19635 Human ner
586	204.6	7.4	149671	8	ADB70361	Adb70361 Moesin CD	659	203.6	7.4	30000	9	AAK62162	Aad62162 Human hae
587	204.4	7.4	788	6	ABQ88931	Abq88931 Human pro	C 660	203.6	7.4	154902	6	ABQ88198	Abq88198 Human oet
588	204.4	7.4	1332	4	AA16142	Aas16142 Human hyd	C 661	203.4	7.4	471	8	ACH26296	Ach26296 Human adu
589	204.4	7.4	5876	4	AA105576	Aal105576 Human rep	C 662	203.4	7.4	708	8	ADB81875	Adb81875 Human CDN
590	204.4	7.4	10434	4	AAK36168	Aas36168 Human car	C 663	203.4	7.4	1581	4	AAH13737	Aah13737 Human CDN
591	204.4	7.4	10434	9	ADE46862	Ade46862 Human car	C 664	203.4	7.4	2138	4	AA106186	Aal106186 Human rep
592	204.4	7.4	45546	2	AAK23520	Aax23520 Human kid	C 665	203.4	7.4	2138	4	ABL98751	Ab198751 Human tes
593	204.4	7.4	90541	6	ABSS2847	Abss2847 Human SR	C 666	203.4	7.4	3740	4	AA107296	Aal107296 Human rep
594	204.4	7.4	93390	9	ADD71350	Adc71350 Glutamine	667	203.4	7.4	14209	7	AAK89137	Aak89137 Human dig
595	204.4	7.4	96595	8	ADA03068	Aad03068 Human PPP	C 668	203.4	7.4	32169	5	ABA14358	Abal14358 Human ner
596	204.4	7.4	96595	8	ADB72806	Adb72806 Human PPP	C 669	203.4	7.4	32249	4	AA105336	Aal105336 Human rep
597	204.4	7.4	96595	8	ADA66352	Ada66352 Human PPP	C 670	203.4	7.4	32249	4	ABL98205	Ab198205 Human tes
598	204.4	7.4	113033	7	AA154213	Aal154213 SR protei	671	203.4	7.4	38374	6	ABL68824	Ab168824 Kidney ca
599	204.4	7.4	218336	7	ABQ76678	Abq76678 Androgen	672	203.4	7.4	38374	6	ABL68363	Ab168363 Kidney ca
600	204.4	7.4	326014	6	ABK89296	Abk89296 Human gen	673	203.4	7.4	38374	6	ABL68364	Ab168364 Kidney ca
601	204.2	7.4	9192	4	AAK42359	Abk42359 Genomic s	C 674	203.4	7.4	38374	6	ABN96966	Abn96966 Gene #346
602	204.2	7.4	9192	4	AA135853	Aal135853 Human mus	675	203.4	7.4	62804	6	ABD39317	Aad39317 Human cal
603	204.2	7.4	9192	7	ABX58841	Abx58841 cDNA enco	C 676	203.4	7.4	62804	6	ABX10916	Abx10916 Genomic D
604	204.2	7.4	9192	8	ABD60515	Abd60515 Connectiv	C 677	203.4	7.4	75899	6	ABK85261	Abk85261 Human gen
605	204.2	7.4	17803	4	AAK68676	Aak68676 Human imm	678	203.4	7.4	113000	8	ABT44365	Abt44365 Partial g
606	204.2	7.4	51474	5	AAF97846	Aaf97846 Human neu	679	203.4	7.4	325791	4	AAK43104	Aas43104 Human Oes
607	204.2	7.4	99014	6	ABN96931	Abn96931 Gene #342	680	203.2	7.4	1293	4	AAK72006	Aak72006 Human imm

681	203.2	7.4	4352	4	AAI58667	Human pol	754	202.8	7.4	209273	3	AAF21437	Human fac
682	203.2	7.4	4352	8	ADB48645	Novel hum	755	202.8	7.4	209274	7	ABZ97131	Human enz
683	203.2	7.4	4377	4	RAI60453	Human pol	756	202.6	7.4	1406	7	ADC78806	Human PRO
684	203.2	7.4	7970	4	RAI527697	DNA encod	757	202.6	7.4	1406	6	ADC78892	Human PRO
685	203.2	7.4	7970	9	ADB94500	Novel hum	758	202.6	7.4	10012	6	ABL55889	Human sma
686	203.2	7.4	9193	6	ADA46346	Human nuc	c 759	202.6	7.4	13104	7	ABT23360	Endotheli
687	203.2	7.4	10587	4	AAK92382	Human imm	760	202.6	7.4	15203	9	ADC87166	Human GPC
688	203.2	7.4	13919	6	ABK96218	DNA encod	761	202.6	7.4	24888	8	ADA02624	Human NFK
689	203.2	7.4	13919	6	ABK96221	Human tra	762	202.6	7.4	24888	9	ADB72362	Human NFK
690	203.2	7.4	13919	6	ABK96220	Human dig	763	202.6	7.4	32146	4	ASAS28363	Genomic s
691	203.2	7.4	17601	6	ABL52077	Human per	c 764	202.6	7.4	32152	4	AAK89020	Human dig
692	203.2	7.4	17906	5	ABA20606	Human ner	765	202.6	7.4	32152	4	AAK91534	Human col
693	203.2	7.4	17909	5	ABA20605	Human ner	766	202.6	7.4	32152	4	AAI57791	Human col
694	203.2	7.4	17993	6	ADA46721	Human tra	c 767	202.6	7.4	32152	5	ABS99621	Genomic s
695	203.2	7.4	21404	6	ABK96229	Human dig	768	202.6	7.4	32152	6	ABS99668	Genomic D
696	203.2	7.4	32199	4	AAK90296	Human dig	c 769	202.6	7.4	32152	8	ADB32581	Human nov
697	203.2	7.4	32199	4	AAI57673	Human col	770	202.6	7.4	32152	9	ADB33121	Human col
698	203.2	7.4	32199	6	ABS99850	Genomic D	c 771	202.6	7.4	32248	4	ASAS28368	Genomic s
699	203.2	7.4	32199	9	ADB93003	Human col	772	202.6	7.4	34433	4	AAK76172	Human imm
700	203.2	7.4	34269	4	AAK68677	Human imm	c 773	202.6	7.4	36933	4	AAK66362	Human imm
701	203.2	7.4	34269	4	AAK95168	Human imm	774	202.6	7.4	38918	9	ADC87242	Human GPC
702	203.2	7.4	57296	4	AAK78847	Human imm	c 775	202.6	7.4	53106	8	ADA03044	Human BAT
703	203.2	7.4	57296	4	AAK78170	Human imm	c 776	202.6	7.4	53106	8	ADA66328	Human BAT
704	203.2	7.4	57296	4	AAK79364	Human imm	c 777	202.6	7.4	53106	9	ADB72782	Human BAT
705	203.2	7.4	57296	4	AAK86799	Human imm	778	202.6	7.4	128034	9	ADA43582	Polymorph
706	203.2	7.4	86080	6	ABQ98164	Human ost	779	202.6	7.4	128034	9	ADA43581	Human IDE
707	203.2	7.4	86080	6	ABK93561	Human cdn	780	202.6	7.4	177380	7	ACF62751	Cancer ba
708	203.2	7.4	86080	9	ADD71054	Human pro	781	202.6	7.4	177380	7	ADB20870	MRP1 base
709	203.2	7.4	185371	6	ABT10718	Human bre	782	202.6	7.4	177380	9	ADB87959	Human UGT
710	203	7.4	883	9	ADC96650	Human GPC	783	202.6	7.4	177380	9	ADB96942	Human MDR
711	203	7.4	2420	4	AAH15922	Human cdn	784	202.6	7.4	177380	9	ADB92133	Human MDR
712	203	7.4	14525	4	AAK70511	Human imm	785	202.6	7.4	202100	9	ADB43315	Human IDE
713	203	7.4	21666	8	ADA02702	Human Nup	786	202.6	7.4	300000	9	ADB86352	Human PTP
714	203	7.4	21666	9	ADB72440	Human CA	c 787	202.4	7.4	669	6	ABN62557	Human can
715	203	7.4	44196	4	AAK77458	Human imm	788	202.4	7.4	1248	4	AAK69413	Human imm
716	203	7.4	59588	9	ADC87426	Human GPC	789	202.4	7.4	3702	4	AAK72556	Human imm
717	203	7.4	72604	2	AAZ10752	Genomic s	c 790	202.4	7.4	4255	4	AAK84530	Human imm
718	203	7.4	72604	6	ABK43231	Human HKN	791	202.4	7.4	4825	7	ACC47355	Human pro
719	203	7.4	96591	9	ADC95301	Mouse Sos	c 792	202.4	7.4	6566	6	ABK99372	Human mon
720	203	7.4	96592	8	ADA02822	Human SOS	c 793	202.4	7.4	6906	4	AAK66219	Human imm
721	203	7.4	96592	9	ADB72560	Human SOS	c 794	202.4	7.4	10483	4	AAK80686	Human imm
722	203	7.4	113000	8	ABT44365	Partial g	795	202.4	7.4	11968	4	AAI05563	Human rep
723	203	7.4	325791	4	AAK43104	Human Oes	c 796	202.4	7.4	16326	4	AAK69677	Human imm
724	203	7.4	4915	5	AAK98961	Human dig	797	202.4	7.4	19199	4	AAK70995	Human imm
725	202.8	7.4	4915	5	AS31830	Human liv	798	202.4	7.4	22013	5	ABK85635	Human imm
726	202.8	7.4	4915	6	ABN90185	Human liv	799	202.4	7.4	22013	5	ABK16084	Human ner
727	202.8	7.4	8923	7	ABZ68191	Human sec	c 800	202.4	7.4	23989	4	AAK72555	Human imm
728	202.8	7.4	8923	7	ABZ68191	Human sec	c 801	202.4	7.4	27754	6	ABQ72998	Human tra
729	202.8	7.4	8923	7	ABZ74669	Secreted	802	202.4	7.4	31766	6	AAI50687	Human sul
730	202.8	7.4	12280	5	AAK76794	Human imm	803	202.4	7.4	31766	6	AAI50687	Human sul
731	202.8	7.4	12280	5	AAK76794	Human ner	804	202.4	7.4	32249	5	ABAI17155	Human ner
732	202.8	7.4	24801	7	ABZ20990	Human thy	805	202.4	7.4	32874	8	ADA02648	Human TBX
733	202.8	7.4	25541	4	AAK76168	Human imm	806	202.4	7.4	32874	8	ADA02648	Human TBX
734	202.8	7.4	32146	4	AAK28363	Genomic s	c 807	202.4	7.4	46050	7	ABX13974	Human rep
735	202.8	7.4	32438	4	AAK28368	Genomic s	c 808	202.4	7.4	110000	7	ABZ79565	Human sec
736	202.8	7.4	34435	4	AAK76172	Human imm	809	202.4	7.4	1868	5	ABAI19717	Human sec
737	202.8	7.4	44100	3	ABN97975	Human ret	c 810	202.2	7.4	2024	6	ABZ82521	Human sec
738	202.8	7.4	72215	4	AAK86832	Human imm	811	202.2	7.4	4600	7	ACC49433	Human CD3
739	202.8	7.4	112132	6	ABK90888	Human ATP	812	202.2	7.4	13821	4	AAI36230	Human mus
740	202.8	7.4	128978	6	ABK83459	Human cDN	813	202.2	7.4	13821	7	ABX59218	cDNA enco
741	202.8	7.4	128978	7	AAK54587	Human LIM	814	202.2	7.4	15977	4	ABX63407	Human CD3
742	202.8	7.4	136328	6	ABZ35015	Human gen	c 815	202.2	7.4	22428	4	AAK41759	Genomic s
743	202.8	7.4	136328	6	ABZ35015	Human gen	816	202.2	7.4	22428	7	ABZ67767	Human sec
744	202.8	7.4	136328	6	ABZ35015	Human gen	817	202.2	7.4	22428	7	ABZ74201	Secreted
745	202.8	7.4	141589	3	AAK35005	Human ade	818	202.2	7.4	22428	7	ADA98730	Human sec
746	202.8	7.4	141589	3	AAK35030	Human ade	819	202.2	7.4	23378	4	ABK42627	Genomic s
747	202.8	7.4	141589	3	AAK35030	Human low	820	202.2	7.4	23378	4	AAK89555	Human dig
748	202.8	7.4	141589	3	AAK20913	Human ELA	821	202.2	7.4	23378	8	ADB60783	Connectiv
749	202.8	7.4	141589	7	AAK21127	Human low	822	202.2	7.4	27681	4	AAK36498	Human car
750	202.8	7.4	141589	7	ABZ96821	Human nuc	823	202.2	7.4	27681	4	AAK36497	Human car
751	202.8	7.4	141589	7	ABZ96607	Human ELA	824	202.2	7.4	27681	4	AAK85843	Human imm
752	202.8	7.4	146981	3	AAK21442	Human ELA	825	202.2	7.4	27681	9	ABZ7191	Human car
753	202.8	7.4	146982	7	ABZ97136	Human ELA	826	202.2	7.4	27681	9	ABZ7192	Human car

827	202.2	7.4	31140	4	AAL06791	Human rep	Aal06791	Human rep	c 900	201.4	7.3	23107	8	ADA02762	Human RUN	Ada02762	Human RUN
828	202.2	7.4	31140	4	ABA08065	Human ova	Abao8065	Human ova	c 901	201.4	7.3	23107	9	ADB72500	Human RUN	Adb72500	Human RUN
829	202.2	7.4	32042	2	AAZ09252	Human CAR	Aaz09252	Human CAR	c 902	201.4	7.3	23107	9	ADC85242	Human RUN	Adc85242	Human RUN
830	202.2	7.4	32042	4	AAP30011	Human CAR	Aap30011	Human CAR	c 903	201.4	7.3	30568	7	ABX37486	Human mus	Aal37486	Human mus
831	202.2	7.4	32042	6	ABK89285	Human cas	Abk89285	Human cas	c 904	201.4	7.3	30568	7	ABX60474	cDNA enco	Abx60474	cDNA enco
832	202.2	7.4	32042	6	ABL40765	Genomic D	Aal40765	Genomic D	c 905	201.4	7.3	48045	4	AAK84730	Human imm	Aak84730	Human imm
833	202.2	7.4	34001	8	ABT44144	Complemen	Adt44144	Complemen	c 906	201.4	7.3	48045	4	AAK85984	Human imm	Aak85984	Human imm
834	202.2	7.4	44400	4	AAS12438	DNA encod	Aas12438	DNA encod	c 907	201.4	7.3	117574	6	AAAL45288	Human KCN	Aal45288	Human KCN
835	202.2	7.4	53332	6	AAL48890	Human Pft	Aal48890	Human Pft	c 908	201.4	7.3	185035	6	ABT10147	Human bre	Abt10147	Human bre
836	202.2	7.4	80595	2	AAV83939	HC-contig	Av83939	HC-contig	c 909	201.4	7.3	185035	7	ACA64951	Human PEN	Ac64951	Human PEN
837	202.2	7.4	96595	8	ADA03068	Human PPP	Ada03068	Human PPP	c 910	201.4	7.3	197997	7	AAL54074	Human tra	Aal54074	Human tra
838	202.2	7.4	96595	8	ADB72806	Human PPP	Adb72806	Human PPP	c 911	201.4	7.3	226475	8	AAAS8279	Human tum	Rad58279	Human tum
839	202.2	7.4	96596	8	ADA66352	Human PPP	Ada66352	Human PPP	c 912	201.4	7.3	268685	6	ABS56563	Human SUL	Ad556563	Human SUL
840	202	7.3	2013	6	ACC57389	Human mac	Acc57389	Human mac	c 913	201.2	7.3	2345	5	ABAI17201	Human ner	Abai17201	Human ner
841	202	7.3	5304	7	ADA98924	Human sec	Ada98924	Human sec	c 914	201.2	7.3	2345	5	ABAI17202	Human ner	Abai17202	Human ner
842	202	7.3	5304	7	ADA44528	Human sec	Ada44528	Human sec	c 915	201.2	7.3	4329	4	AAAS30492	DNA encod	Aas30492	DNA encod
843	202	7.3	5304	9	ADC20962	Human sec	Adc20962	Human sec	c 916	201.2	7.3	4329	4	AAAL06272	Human rep	Aal06272	Human rep
844	202	7.3	9731	4	AAL04943	Human rep	Aal04943	Human rep	c 917	201.2	7.3	5067	4	AAK72175	Human imm	Aak72175	Human imm
845	202	7.3	9731	4	ABL97837	Human tes	Abi97837	Human tes	c 918	201.2	7.3	11960	4	AAAL05813	Human rep	Aal05813	Human rep
846	202	7.3	20601	4	AAK79760	Human tes	Aak79760	Human tes	c 919	201.2	7.3	11960	4	ABL98377	Human tes	Abi98377	Human tes
847	202	7.3	22930	4	AAK78545	Human imm	Aak78545	Human imm	c 920	201.2	7.3	23324	8	AAAL56668	Human G-C	Aal56668	Human G-C
848	202	7.3	32193	4	AAAS27848	DNA encod	Aas27848	DNA encod	c 921	201.2	7.3	23324	8	AAAL56668	Human G-C	Aal56668	Human G-C
849	202	7.3	32193	9	ADB94651	Novel hum	Adb94651	Novel hum	c 922	201.2	7.3	23885	4	AAK70103	Human imm	Aak70103	Human imm
850	202	7.3	33942	4	AAK86218	Human imm	Aak86218	Human imm	c 923	201.2	7.3	29430	5	ABA82621	Human HBM	Ab82621	Human HBM
851	202	7.3	33942	4	AAK80281	Human imm	Aak80281	Human imm	c 924	201.2	7.3	29430	7	ACC45362	Human HBM	Acc45362	Human HBM
852	202	7.3	46366	4	AAK82098	Human imm	Aak82098	Human imm	c 925	201.2	7.3	29430	9	ADB98062	HEM-relat	Adb98062	HEM-relat
853	202	7.3	65854	4	AAK86282	Human imm	Aak86282	Human imm	c 926	201.2	7.3	29430	9	ADE82431	Human DNA	Ade82431	Human DNA
854	202	7.3	98690	6	ABK12169	Human DNA	Abk12169	Human DNA	c 927	201.2	7.3	30724	7	ABZ68192	Human sec	Abz68192	Human sec
855	202	7.3	142519	7	RAD54634	Human chr	Rad54634	Human chr	c 928	201.2	7.3	30724	7	ABZ74670	Secreted	Abz74670	Secreted
856	201.8	7.3	14747	4	AAF63406	Human CD3	Aaf63406	Human CD3	c 929	201.2	7.3	30803	4	AAK68410	Human imm	Aak68410	Human imm
857	201.8	7.3	20733	8	AAAS68742	Human tra	Rad58742	Human tra	c 930	201.2	7.3	30810	6	ABK22780	Human hig	Abk22780	Human hig
858	201.8	7.3	35962	7	ABZ09862	Human 5'	Abz09862	Human 5'	c 931	201.2	7.3	32190	4	AAI62927	Human gen	Aai62927	Human gen
859	201.8	7.3	99014	6	ABN96931	Gene #342	Abn96931	Gene #342	c 932	201.2	7.3	32249	4	AAI62932	Human gen	Aai62932	Human gen
860	201.8	7.3	110000	6	ABSS5320	Continuation (4 of	Abss5320	Continuation (4 of	c 933	201.2	7.3	34878	4	AAK66167	Human imm	Aak66167	Human imm
861	201.8	7.3	119756	7	ACD13448	Human DNA	Acd13448	Human DNA	c 934	201.2	7.3	34878	4	AAK80088	Human imm	Aak80088	Human imm
862	201.8	7.3	129722	6	ABQ88117	Human osc	Abq88117	Human osc	c 935	201.2	7.3	36785	4	AAK82208	Human imm	Aak82208	Human imm
863	201.8	7.3	133893	8	AAAS4538	Human pho	Rad54538	Human pho	c 936	201.2	7.3	39068	4	AAK71820	Human imm	Aak71820	Human imm
864	201.8	7.3	237326	2	AAV57903	Hereditar	Av57903	Hereditar	c 937	201.2	7.3	39068	4	AAK85294	Human imm	Aak85294	Human imm
865	201.8	7.3	341511	6	ABSS5200	Genomic D	Abss5200	Genomic D	c 938	201.2	7.3	39068	4	AAK73078	Human imm	Aak73078	Human imm
866	201.6	7.3	587	4	AAH04536	Human CDN	Aah04536	Human CDN	c 939	201.2	7.3	39068	4	AAK87544	Human imm	Aak87544	Human imm
867	201.6	7.3	26048	4	AAAS6056	Human car	Aas6056	Human car	c 940	201.2	7.3	39068	7	ABZ68184	Human sec	Abz68184	Human sec
868	201.6	7.3	26048	9	ADE46750	Human car	Ade46750	Human car	c 941	201.2	7.3	39068	7	ABZ74662	Secreted	Abz74662	Secreted
869	201.6	7.3	26427	5	ABA20763	Human ner	Ab20763	Human ner	c 942	201.2	7.3	39110	4	AAK73087	Human imm	Aak73087	Human imm
870	201.6	7.3	26427	5	ABA20762	Human ner	Ab20762	Human ner	c 943	201.2	7.3	39110	4	AAK71825	Human imm	Aak71825	Human imm
871	201.6	7.3	32204	4	AAK89019	Human dig	Aak89019	Human dig	c 944	201.2	7.3	39110	4	AAK87555	Human imm	Aak87555	Human imm
872	201.6	7.3	32204	4	AAK91533	Human dig	Aak91533	Human dig	c 945	201.2	7.3	39110	7	ABZ68185	Human sec	Abz68185	Human sec
873	201.6	7.3	32204	4	AAI57790	Human col	Aai57790	Human col	c 946	201.2	7.3	39110	7	ABZ74663	Secreted	Abz74663	Secreted
874	201.6	7.3	32204	5	AAAS39620	Genomic s	Aas39620	Genomic s	c 947	201.2	7.3	52216	6	AAH28355	Nucleotid	Aah28355	Nucleotid
875	201.6	7.3	32204	6	ABS99967	Genomic D	Abss9967	Genomic D	c 948	201.2	7.3	52216	6	ABL50307	Human mus	Abi50307	Human mus
876	201.6	7.3	32204	8	ADB32580	Human nov	Adb32580	Human nov	c 949	201.2	7.3	107602	6	AAK99657	DNA of th	Aak99657	DNA of th
877	201.6	7.3	32204	9	ADB93120	Human col	Adb93120	Human col	c 950	201.2	7.3	107612	6	ABL54503	Human PAC	Abi54503	Human PAC
878	201.6	7.3	154902	6	ABQ88198	Human ost	Abq88198	Human ost	c 951	201.2	7.3	110000	7	ACF42745	Human ALM	Acf42745	Human ALM
879	201.6	7.3	167163	9	ADE82948	Human PVT	Ade82948	Human PVT	c 952	201.2	7.3	112460	6	ABK83567	Human CDN	Abk83567	Human CDN
880	201.6	7.3	188888	6	ABQ75562	Human rel	Abq75562	Human rel	c 953	201	7.3	1267	2	AAK97978	Human sec	Aax97978	Human sec
881	201.4	7.3	1291	4	AAK72007	Human imm	Aak72007	Human imm	c 954	201	7.3	1267	8	ADAI1550	Human CDN	Adai1550	Human CDN
882	201.4	7.3	1426	4	AAI59074	Human pol	Aai59074	Human pol	c 955	201	7.3	2611	6	ABK76421	cDNA enco	Abk76421	cDNA enco
883	201.4	7.3	1426	8	ADB49057	Novel hum	Adb49057	Novel hum	c 956	201	7.3	3234	2	AAQ92781	Human thy	Aaq92781	Human thy
884	201.4	7.3	1640	4	AAH13827	Human CDN	Aah13827	Human CDN	c 957	201	7.3	4549	4	AAK72174	Human imm	Aak72174	Human imm
885	201.4	7.3	2859	4	AAH17472	Human CDN	Aah17472	Human CDN	c 958	201	7.3	4727	4	AAK65762	Human imm	Aak65762	Human imm
886	201.4	7.3	3173	4	AAK82670	Human 7TM	Aac82670	Human 7TM	c 959	201	7.3	8458	4	AAK72176	Human imm	Aak72176	Human imm
887	201.4	7.3	5491	4	AAK69044	Human imm	Aak69044	Human imm	c 960	201	7.3	9500	7	AAAD52779	Human Fra	Aad52779	Human Fra
888	201.4	7.3	7240	4	AAH04467	Human ins	Aad04467	Human ins	c 961	201	7.3	21968	7	AAAD51326	Human rec	Aad51326	Human rec
889	201.4	7.3	7240	4	AAH31267	Human ins	Aah31267	Human ins	c 962	201	7.3	22900	4	AAK82210	Human imm	Aak82210	Human imm
890	201.4	7.3	7240	4	AAH31170	Human ins	Aah31170	Human ins	c 963	201	7.3	23580	4	AAK83578	Human imm	Aak83578	Human imm
891	201.4	7.3	7240	5	AAH50570	Insulin r	Aah50570	Insulin r	c 964	201	7.3	23580	4	AAK66230	Human imm	Aak66230	Human imm
892	201.4	7.3	7240	6	AAH50725	Human ins	Abq72725	Human ins	c 965	201	7.3	25423	4	AAK90279	Human dig	Aak90279	Human dig
893	201.4	7.3	7240	8	AAAL62772	Human ins	Aal62772	Human ins	c 966	201	7.3	25423	4	AAI57656	Human col	Aai57656	Human col
894	201.4	7.3	8966	2	AAZ09581	Human Apo	Aaz09581	Human Apo	c 967	201	7.3	25423	6	ABS99833	Genomic D	Ab99833	Genomic D
895	201.4	7.3	8966	6	ABN95588	Gene #208	Abn95588	Gene #208	c 968	201	7.3	25423	9	AAK92986	Human col	Aak92986	Human col
896	201.4	7.3	16337	7	AAAL37103	Human mus	Aal37103	Human mus	c 969	201	7.3	25424	4	AAK90280	Human dig	Aak90280	Human dig
897	201.4	7.3	16337	7	ABX60091	cDNA enco	Abx60091	cDNA enco	c 970	201	7.3	25424	4	AAI57657	Human col	Aai57657	Human col
898	201.4	7.3	17146	4	AAAL37485	Human mus	Aal37485	Human mus	c 971	201	7.3	25424	6	ABS99834	Genomic D	Ab99834	Genomic D
899	201.4	7.3	17146	7	ABX60473	cDNA enco	Abx60473	cDNA enco	c 972	201	7.3	25424	9	ADB92987	Human col	Abd92987	Human col

973	201	7.3	25541	4	AAK76168	Human imm	1046	200.4	7.3	631	3	AAAI6349	Human col
974	201	7.3	27960	4	AAK69779	Human imm	1047	200.4	7.3	1419	4	AAI60860	Human pol
975	201	7.3	27960	4	AAK73320	Human imm	1048	200.4	7.3	1917	9	ADB62783	Human CDN
C 976	201	7.3	44147	6	ABK84481	Human CDN	1049	200.4	7.3	2566	5	ABAI9833	Human ner
C 977	201	7.3	44147	9	ADD14691	Human SRC	c1050	200.4	7.3	5824	7	ABZ67538	Human sec
C 978	201	7.3	50000	4	ADC56843	Human IkB	c1051	200.4	7.3	5824	7	ABZ73954	Secreted
C 979	201	7.3	55235	4	AAK67426	Human imm	c1052	200.4	7.3	5825	7	ABZ67537	Human sec
C 980	201	7.3	81800	6	ABK84756	Human CDN	c1053	200.4	7.3	5825	7	ABZ73953	Secreted
C 981	201	7.3	86574	6	ABK83560	Human CDN	c1054	200.4	7.3	5881	4	AAI07230	Human rep
C 982	201	7.3	91000	8	AAK81326	Human far	c1055	200.4	7.3	5881	4	ABL98778	Human tes
C 983	201	7.3	148834	6	ABK83570	Human CDN	c1056	200.4	7.3	6269	9	ADC86968	Human GPC
C 984	201	7.3	169739	6	ABQ88186	Human ost	c1057	200.4	7.3	15332	4	AAK78662	Human imm
C 985	201	7.3	177531	7	ACF62732	Cancer ba	1058	200.4	7.3	23574	5	ABZ72041	Gene 216
986	201	7.3	177531	7	ADB20847	MRP1 base	c1059	200.4	7.3	23574	4	AAK74892	Human gen
987	201	7.3	177531	9	ADB87936	Human UGT	c1060	200.4	7.3	23603	4	AAK71829	Human imm
988	201	7.3	177531	9	ADB87936	Human MDR	1061	200.4	7.3	23603	4	AAK73089	Human imm
C 989	201	7.3	177531	9	ADB92110	Human MDR	1062	200.4	7.3	23603	4	AAK87557	Human imm
C 990	200.8	7.3	177531	9	ADB92110	Human MDR	c1063	200.4	7.3	23603	4	AAI62936	Human gen
C 991	200.8	7.3	584	6	ABL38071	Human col	c1064	200.4	7.3	24218	4	AAK87556	Human imm
C 992	200.8	7.3	1790	7	AAK51912	Human rec	1065	200.4	7.3	24218	4	AAK87556	Human imm
C 993	200.8	7.3	4126	4	AAK89461	Human dig	c1066	200.4	7.3	24218	4	AAK73088	Human imm
C 994	200.8	7.3	4126	4	AAK80162	Human imm	c1067	200.4	7.3	24218	4	AAK71828	Human imm
C 995	200.8	7.3	7349	4	AAK64838	Human imm	c1068	200.4	7.3	24218	7	AAI62935	Human gen
C 996	200.8	7.3	14254	5	ABAI7489	Human ner	1069	200.4	7.3	24218	7	ABZ68186	Human sec
C 997	200.8	7.3	16146	4	AAK84529	Human imm	c1070	200.4	7.3	28066	9	ADC87584	Secreted
C 998	200.8	7.3	16146	7	ABT17011	Human sec	c1071	200.4	7.3	30967	2	AAT32454	Calpain 1
C 999	200.8	7.3	16146	7	ABZ68089	Human sec	c1072	200.4	7.3	30967	2	AAK86025	Human imm
C 1000	200.8	7.3	16146	7	ADA98945	Human sec	c1073	200.4	7.3	54877	4	AAK86026	Human imm
C 1001	200.8	7.3	16146	9	ADC20980	Human sec	1074	200.4	7.3	54877	7	ABZ67791	Human sec
C 1002	200.8	7.3	17185	4	AAK75628	Human imm	1075	200.4	7.3	54877	7	ABZ74225	Secreted
C 1003	200.8	7.3	17185	5	ABAI6049	Human ner	1076	200.4	7.3	54877	7	ADA98754	Human sec
C 1004	200.8	7.3	20445	6	AAAI9906	Reference	1077	200.4	7.3	59554	8	ADA02696	Human TK2
C 1005	200.8	7.3	25971	4	AAK86336	Human imm	1078	200.4	7.3	59554	9	ADB72434	Human TK2
C 1006	200.8	7.3	37449	4	AAK68874	Human imm	c1079	200.4	7.3	63824	9	ADA43743	Polymorph
C 1007	200.8	7.3	38764	8	ADA03020	Human RAC	1080	200.4	7.3	69770	9	ADC86870	Human GPC
C 1008	200.8	7.3	38764	9	ADB72758	Human RAC	c1081	200.4	7.3	80959	7	AAI51405	Human sec
C 1009	200.8	7.3	38764	9	ADC85500	Human Rac	1082	200.4	7.3	80959	6	ABQ78054	Human Ras
C 1010	200.8	7.3	46366	4	AAK82098	Human imm	1083	200.4	7.3	118584	9	ADC87623	Human GPC
C 1011	200.8	7.3	49312	3	AAH51594	Human gen	1084	200.4	7.3	207433	5	ABZ72040	Gene 216
C 1012	200.8	7.3	79528	6	AAI50814	Human can	1085	200.4	7.3	207433	7	ABX74891	BAC1098L2
C 1013	200.8	7.3	93273	8	AAI57580	Human GTP	c1086	200.4	7.3	249999	7	ABZ80229	Human tra
C 1014	200.8	7.3	147419	6	ABK83574	Human CDN	c1087	200.2	7.3	1503	4	AAH16959	Human CDN
C 1015	200.8	7.3	174566	7	ABQ77400	Human ITG	1088	200.2	7.3	1693	4	AAK78365	Human imm
C 1016	200.8	7.3	237961	6	ABQ80552	Human Can	1089	200.2	7.3	1693	4	AAK78362	Human imm
C 1017	200.6	7.3	589	4	AAK73475	Human imm	1090	200.2	7.3	3089	3	AZ64958	Membrane-
C 1018	200.6	7.3	1052	5	AAH94558	Human foe	1091	200.2	7.3	3089	4	AAS45955	Human DNA
C 1019	200.6	7.3	3426	4	AAK72154	Human imm	1092	200.2	7.3	3089	5	AAI44104	Human PRO
C 1020	200.6	7.3	5838	4	ABL06131	Human rep	1093	200.2	7.3	3089	7	ABX78558	Human PRO
C 1021	200.6	7.3	5838	4	ABL98696	Human tes	1094	200.2	7.3	3089	7	ACA75530	Novel hum
C 1022	200.6	7.3	13819	4	AAI36231	Human mus	1095	200.2	7.3	3089	7	ACA71010	Human sec
C 1023	200.6	7.3	13819	7	ABX59219	cDNA enco	1096	200.2	7.3	3089	7	ACC87538	Human sec
C 1024	200.6	7.3	21234	6	AAI32039	Human kin	1097	200.2	7.3	3089	7	ACC86924	Human sec
C 1025	200.6	7.3	21906	4	AAK90851	Human dig	1098	200.2	7.3	3089	7	ACD04097	Human sec
C 1026	200.6	7.3	22026	4	AAK85636	Human imm	1099	200.2	7.3	3089	7	ABX77728	Human PRO
C 1027	200.6	7.3	22026	5	ABAI6085	Human ner	1100	200.2	7.3	3089	7	ABX80140	Human sec
C 1028	200.6	7.3	27695	4	AAK77367	Human imm	1101	200.2	7.3	3089	7	ACA69046	Human CDN
C 1029	200.6	7.3	29844	6	ADA46552	Human CMO	1102	200.2	7.3	3089	7	ACA69428	cDNA enco
C 1030	200.6	7.3	30610	5	ABAI5643	Human ner	1103	200.2	7.3	3089	7	ACA90273	Novel hum
C 1031	200.6	7.3	39119	7	ABZ67621	Human sec	1104	200.2	7.3	3089	7	ACC89380	Human sec
C 1032	200.6	7.3	39119	7	ABZ74034	Secreted	1105	200.2	7.3	3089	7	ABX90117	Human sec
C 1033	200.6	7.3	39119	7	ADA98641	Human sec	1106	200.2	7.3	3089	7	ACA98171	Novel hum
C 1034	200.6	7.3	39119	9	ADC20764	Human sec	1107	200.2	7.3	3089	7	ACA93813	Human sec
C 1035	200.6	7.3	41159	4	AAK65631	Human imm	1108	200.2	7.3	3089	7	ACD15206	Human sec
C 1036	200.6	7.3	43950	6	AAI36022	Human kin	1109	200.2	7.3	3089	7	ACD08793	Human sec
C 1037	200.6	7.3	65464	7	ABX13172	Human gen	1110	200.2	7.3	3089	7	ACC96713	Human sec
C 1038	200.6	7.3	142519	7	AAI54634	Human chr	1111	200.2	7.3	3089	7	ACF15434	Human sec
C 1039	200.6	7.3	175737	6	ABK83571	Human CDN	1112	200.2	7.3	3089	7	ABX63963	cDNA enco
C 1040	200.6	7.3	189013	7	ACF62741	Cancer ba	1113	200.2	7.3	3089	7	ACA72801	Human PRO
C 1041	200.6	7.3	189013	7	ADB20856	MRP1 base	1114	200.2	7.3	3089	7	ACD02973	Novel hum
C 1042	200.6	7.3	189013	9	ADB87945	Human UGT	1115	200.2	7.3	3089	7	ACD01788	Novel hum
C 1043	200.6	7.3	189013	9	ADB96928	Human MDR	1116	200.2	7.3	3089	7	ACA91980	Novel hum
C 1044	200.6	7.3	189013	9	ADB92119	Human MDR	1117	200.2	7.3	3089	7	ACA89405	cDNA enco
C 1045	200.4	7.3	475	5	ABV61178	Human PRO	1118	200.2	7.3	3089	7	ACA73415	Human sec

1119	200.2	7.3	3089	7	ACA05730	Human sec	1192	200.2	7.3	3089	7	ACA96529	Human PRO
1120	200.2	7.3	3089	7	ACA66564	cdNA enco	1193	200.2	7.3	3089	7	ACD10635	cdNA enco
1121	200.2	7.3	3089	7	ACA64185	Novel hum	1194	200.2	7.3	3089	7	ACC91331	Human sec
1122	200.2	7.3	3089	7	ACF20139	Human sec	1195	200.2	7.3	3089	7	ACA93345	Novel hum
1123	200.2	7.3	3089	7	ACF19525	Human sec	1196	200.2	7.3	3089	7	ACD02666	cdNA enco
1124	200.2	7.3	3089	7	ACD21813	Human sec	1197	200.2	7.3	3089	7	ACC87231	Human sec
1125	200.2	7.3	3089	7	ACF12978	Human sec	1198	200.2	7.3	3089	7	ACC85815	Human sec
1126	200.2	7.3	3089	7	ACD25081	Human sec	1199	200.2	7.3	3089	7	ABX81027	Human sec
1127	200.2	7.3	3089	7	ACF00130	Human sec	1200	200.2	7.3	3089	7	ACA65303	Human PRO
1128	200.2	7.3	3089	7	ACA72187	Novel hum	1201	200.2	7.3	3089	7	ACA94120	Human sec
1129	200.2	7.3	3089	7	ACD04711	Novel hum	1202	200.2	7.3	3089	7	ACA97864	Human PRO
1130	200.2	7.3	3089	7	ACD18172	Human sec	1203	200.2	7.3	3089	7	ACA91366	Novel hum
1131	200.2	7.3	3089	7	ACD08179	Human sec	1204	200.2	7.3	3089	7	ACA90580	Novel hum
1132	200.2	7.3	3089	7	ACA88613	Novel hum	1205	200.2	7.3	3089	7	ACD16127	Human sec
1133	200.2	7.3	3089	7	ACA70055	Human sec	1206	200.2	7.3	3089	7	ACD17288	Human sec
1134	200.2	7.3	3089	7	ACD12277	Novel hum	1207	200.2	7.3	3089	7	ACC91945	Human sec
1135	200.2	7.3	3089	7	ACC74192	Human sec	1208	200.2	7.3	3089	7	ACA74802	cdNA enco
1136	200.2	7.3	3089	7	ACD15820	Human sec	1209	200.2	7.3	3089	7	ACA91673	Human PRO
1137	200.2	7.3	3089	7	ACD25388	Novel hum	1210	200.2	7.3	3089	7	ACA71317	Human sec
1138	200.2	7.3	3089	7	ACD17865	Human sec	1211	200.2	7.3	3089	7	ACC90717	Human sec
1139	200.2	7.3	3089	7	ACC88152	Human sec	1212	200.2	7.3	3089	7	ACA65727	cdNA enco
1140	200.2	7.3	3089	7	ACD21506	Human sec	1213	200.2	7.3	3089	7	ACA92843	Novel hum
1141	200.2	7.3	3089	7	ACD18573	Human sec	1214	200.2	7.3	3089	7	ACA94872	cdNA enco
1142	200.2	7.3	3089	7	ABX98183	Human CDN	1215	200.2	7.3	3089	7	ACD16434	Human sec
1143	200.2	7.3	3089	7	ACD13934	Human PRO	1216	200.2	7.3	3089	7	ACD15513	Human sec
1144	200.2	7.3	3089	7	ACD09714	Human sec	1217	200.2	7.3	3089	7	ABX16927	Human PRO
1145	200.2	7.3	3089	7	ACC88459	Human sec	1218	200.2	7.3	3089	7	ABX16616	Human CDN
1146	200.2	7.3	3089	7	ACD21199	Human sec	1219	200.2	7.3	3089	8	ACA67782	Novel hum
1147	200.2	7.3	3089	7	ABX75571	Human CDN	1220	200.2	7.3	3089	8	ACA97557	Human PRO
1148	200.2	7.3	3089	7	ABX97774	Human PRO	1221	200.2	7.3	3089	8	ACA99006	Novel hum
1149	200.2	7.3	3089	7	ACA97250	Novel hum	1222	200.2	7.3	3089	8	ACC91638	Human sec
1150	200.2	7.3	3089	7	ACA57713	Human PRO	1223	200.2	7.3	3089	8	ACD11049	Novel hum
1151	200.2	7.3	3089	7	ACD14241	Human PRO	1224	200.2	7.3	3089	8	ACD14899	Human sec
1152	200.2	7.3	3089	7	ACC91024	Human sec	1225	200.2	7.3	3089	8	ACA88231	Human sec
1153	200.2	7.3	3089	7	ACC88766	Human sec	1226	200.2	7.3	3089	8	ACD81738	cdNA enco
1154	200.2	7.3	3089	7	ACD08963	Human PRO	1227	200.2	7.3	3089	8	ACD11663	Human sec
1155	200.2	7.3	3089	7	ACA67414	Human PRO	1228	200.2	7.3	3089	8	ACC95792	Human sec
1156	200.2	7.3	3089	7	ACC81469	Human sec	1229	200.2	7.3	3089	8	ACF16355	Human sec
1157	200.2	7.3	3089	7	ACC89073	Human sec	1230	200.2	7.3	3089	8	ACF02473	Human sec
1158	200.2	7.3	3089	7	ACC86429	Human sec	1231	200.2	7.3	3089	8	ACF02780	Human sec
1159	200.2	7.3	3089	7	ACC89687	Human sec	1232	200.2	7.3	3089	8	ACF21367	Human sec
1160	200.2	7.3	3089	7	ACC92866	Human sec	1233	200.2	7.3	3089	8	ACF10051	Human sec
1161	200.2	7.3	3089	7	ABX80644	Human sec	1234	200.2	7.3	3089	8	ACF77944	Human sec
1162	200.2	7.3	3089	7	ACA72494	Human PRO	1235	200.2	7.3	3089	8	ACD46649	Human sec
1163	200.2	7.3	3089	7	ACA89012	Human sec	1236	200.2	7.3	3089	8	ACD49412	Human sec
1164	200.2	7.3	3089	7	ACA69748	Human sec	1237	200.2	7.3	3089	8	ACF28179	Human sec
1165	200.2	7.3	3089	7	ACA96891	Novel hum	1238	200.2	7.3	3089	8	ACD88869	Human sec
1166	200.2	7.3	3089	7	ACA90887	Novel hum	1239	200.2	7.3	3089	8	ACD84264	Human PRO
1167	200.2	7.3	3089	7	ACA70669	Human sec	1240	200.2	7.3	3089	8	ACD99038	cdNA enco
1168	200.2	7.3	3089	7	ACA95179	Novel hum	1241	200.2	7.3	3089	8	ADA77813	Human sec
1169	200.2	7.3	3089	7	ACD44153	cdNA enco	1242	200.2	7.3	3089	8	ACF48780	Human sec
1170	200.2	7.3	3089	7	ACC86122	Human sec	1243	200.2	7.3	3089	8	ACD09100	Human sec
1171	200.2	7.3	3089	7	ACC89994	Human sec	1244	200.2	7.3	3089	8	ACF11893	Human sec
1172	200.2	7.3	3089	7	ACD12602	Human sec	1245	200.2	7.3	3089	8	ACF41127	Human sec
1173	200.2	7.3	3089	7	ACF19832	Human sec	1246	200.2	7.3	3089	8	ACF15741	Human sec
1174	200.2	7.3	3089	7	ABX76776	Human PRO	1247	200.2	7.3	3089	8	ACF16048	Human sec
1175	200.2	7.3	3089	7	ACA73108	Novel hum	1248	200.2	7.3	3089	8	ACD31875	Human sec
1176	200.2	7.3	3089	7	ACA68651	Novel hum	1249	200.2	7.3	3089	8	ACF18683	Human sec
1177	200.2	7.3	3089	7	ACA74495	cdNA enco	1250	200.2	7.3	3089	8	ACF09130	Human sec
1178	200.2	7.3	3089	7	ACA70362	Human sec	1251	200.2	7.3	3089	8	ACF78251	Human sec
1179	200.2	7.3	3089	7	ACD14548	Human PRO	1252	200.2	7.3	3089	8	ACF51850	Human sec
1180	200.2	7.3	3089	7	ACA68220	Novel hum	1253	200.2	7.3	3089	8	ACF26337	Human sec
1181	200.2	7.3	3089	7	ABX98685	Novel hum	1254	200.2	7.3	3089	8	ACF24130	Human sec
1182	200.2	7.3	3089	7	ACC81162	Human sec	1255	200.2	7.3	3089	8	ACF63441	Human sec
1183	200.2	7.3	3089	7	ACA95486	Novel hum	1256	200.2	7.3	3089	8	ACF50315	Human sec
1184	200.2	7.3	3089	7	ACD04404	Novel hum	1257	200.2	7.3	3089	8	ACH07786	Human sec
1185	200.2	7.3	3089	7	ACC87845	Human sec	1258	200.2	7.3	3089	8	ACF13592	Human sec
1186	200.2	7.3	3089	7	ACF12507	Human sec	1259	200.2	7.3	3089	8	ACD41518	Human sec
1187	200.2	7.3	3089	7	ABX79324	Human PRO	1260	200.2	7.3	3089	8	ADA37557	Human CDN
1188	200.2	7.3	3089	7	ACA96222	Human PRO	1261	200.2	7.3	3089	8	ACF31931	Human sec
1189	200.2	7.3	3089	7	ACA64996	Human PRO	1262	200.2	7.3	3089	8	ACF23209	Human sec
1190	200.2	7.3	3089	7	ACA73722	Human sec	1263	200.2	7.3	3089	8	ACF39899	Human sec
1191	200.2	7.3	3089	7	ACA74134	Novel hum	1264	200.2	7.3	3089	8	ACD45421	Human sec

1265	200.2	7.3	3089	8	ACF53078	Human sec	1338	200.2	7.3	3089	8	ACF22902	Human sec
1266	200.2	7.3	3089	8	ACF27258	Human sec	1339	200.2	7.3	3089	8	ACF07902	Human sec
1267	200.2	7.3	3089	8	ACF45096	Human sec	1340	200.2	7.3	3089	8	ACF08209	Human sec
1268	200.2	7.3	3089	8	ACF29714	Human sec	1341	200.2	7.3	3089	8	ACF40513	Human sec
1269	200.2	7.3	3089	8	ACD89790	Human sec	1342	200.2	7.3	3089	8	ACF53692	Human sec
1270	200.2	7.3	3089	8	ACD84571	Human PRO	1343	200.2	7.3	3089	8	ACD46956	Human sec
1271	200.2	7.3	3089	8	ACD98731	cDNA enco	1344	200.2	7.3	3089	8	ACF47859	Human sec
1272	200.2	7.3	3089	8	ACF77023	Human sec	1345	200.2	7.3	3089	8	ACF47245	Human sec
1273	200.2	7.3	3089	8	ACF76716	Human sec	1346	200.2	7.3	3089	8	ACF46017	Human sec
1274	200.2	7.3	3089	8	ACF49701	Human sec	1347	200.2	7.3	3089	8	ACD86106	Human sec
1275	200.2	7.3	3089	8	ACF50008	Human sec	1348	200.2	7.3	3089	8	ACF52464	Human sec
1276	200.2	7.3	3089	8	ADA21243	Human cDN	1349	200.2	7.3	3089	8	ACF52771	Human sec
1277	200.2	7.3	3089	8	ACD09407	Human cDN	1350	200.2	7.3	3089	8	ACF64764	Human sec
1278	200.2	7.3	3089	8	ACD08486	Human sec	1351	200.2	7.3	3089	8	ACF76409	Human sec
1279	200.2	7.3	3089	8	ACF12200	Human sec	1352	200.2	7.3	3089	8	ACF61309	Human sec
1280	200.2	7.3	3089	8	ACC94708	Human sec	1353	200.2	7.3	3089	8	ACF61616	Human sec
1281	200.2	7.3	3089	8	ACD22427	Human sec	1354	200.2	7.3	3089	8	ACD30647	Human sec
1282	200.2	7.3	3089	8	ACF15127	Human sec	1355	200.2	7.3	3089	8	ACD31568	Human sec
1283	200.2	7.3	3089	8	ACC97222	Human sec	1356	200.2	7.3	3089	8	ACD32489	Human sec
1284	200.2	7.3	3089	8	ACC92252	Human sec	1357	200.2	7.3	3089	8	ACF17455	Human sec
1285	200.2	7.3	3089	8	ACF13899	Human sec	1358	200.2	7.3	3089	8	ADA94262	Human cDN
1286	200.2	7.3	3089	8	ACF14206	Human sec	1359	200.2	7.3	3089	8	ACF07288	Human sec
1287	200.2	7.3	3089	8	ADA10030	Human cDN	1360	200.2	7.3	3089	8	ACF20446	Human sec
1288	200.2	7.3	3089	8	ACF09437	Human sec	1361	200.2	7.3	3089	8	ACF20753	Human sec
1289	200.2	7.3	3089	8	ACD45728	Human sec	1362	200.2	7.3	3089	8	ACF21060	Human sec
1290	200.2	7.3	3089	8	ACD47877	Human sec	1363	200.2	7.3	3089	8	ACD47570	Human sec
1291	200.2	7.3	3089	8	ACD67608	cDNA enco	1364	200.2	7.3	3089	8	ACF47552	Human sec
1292	200.2	7.3	3089	8	ACF25416	Human sec	1365	200.2	7.3	3089	8	ACF53385	Human sec
1293	200.2	7.3	3089	8	ACF29100	Human sec	1366	200.2	7.3	3089	8	ACD86720	Human sec
1294	200.2	7.3	3089	8	ACD84878	Human sec	1367	200.2	7.3	3089	8	ACH04968	cDNA enco
1295	200.2	7.3	3089	8	ACD83957	Human PRO	1368	200.2	7.3	3089	8	ACF44465	Human sec
1296	200.2	7.3	3089	8	ACD87948	Human sec	1369	200.2	7.3	3089	8	ADA81332	Human sec
1297	200.2	7.3	3089	8	ACF30635	Human sec	1370	200.2	7.3	3089	8	ACD22120	Human sec
1298	200.2	7.3	3089	8	ACF32238	Human sec	1371	200.2	7.3	3089	8	ACD24467	Human sec
1299	200.2	7.3	3089	8	ACH11898	cDNA enco	1372	200.2	7.3	3089	8	ACD39670	cDNA enco
1300	200.2	7.3	3089	8	ACH12205	cDNA enco	1373	200.2	7.3	3089	8	ACF39977	cDNA enco
1301	200.2	7.3	3089	8	ACD40597	Human sec	1374	200.2	7.3	3089	8	ACF13285	Human sec
1302	200.2	7.3	3089	8	ADA17574	cDNA enco	1375	200.2	7.3	3089	8	ACF03087	Human sec
1303	200.2	7.3	3089	8	ACF18069	Human sec	1376	200.2	7.3	3089	8	ACF78558	Human sec
1304	200.2	7.3	3089	8	ACF08516	Human sec	1377	200.2	7.3	3089	8	ACF11279	Human sec
1305	200.2	7.3	3089	8	ACF31317	Human sec	1378	200.2	7.3	3089	8	ACF50622	Human sec
1306	200.2	7.3	3089	8	ACF52157	Human sec	1379	200.2	7.3	3089	8	ACF34117	Human sec
1307	200.2	7.3	3089	8	ACD50026	Human sec	1380	200.2	7.3	3089	8	ACD46342	Human sec
1308	200.2	7.3	3089	8	ACF38729	Human sec	1381	200.2	7.3	3089	8	ACD48184	Human sec
1309	200.2	7.3	3089	8	ACF26644	Human sec	1382	200.2	7.3	3089	8	ACF27565	Human sec
1310	200.2	7.3	3089	8	ACF24744	Human sec	1383	200.2	7.3	3089	8	ACF24437	Human sec
1311	200.2	7.3	3089	8	ACF46324	Human sec	1384	200.2	7.3	3089	8	ACD85492	Human sec
1312	200.2	7.3	3089	8	ACF27872	Human sec	1385	200.2	7.3	3089	8	ACD90097	Human sec
1313	200.2	7.3	3089	8	ACD89176	Human sec	1386	200.2	7.3	3089	8	ACD83650	Human PRO
1314	200.2	7.3	3089	8	ACF63748	Human sec	1387	200.2	7.3	3089	8	ACF49087	Human sec
1315	200.2	7.3	3089	8	ACF60388	Human sec	1388	200.2	7.3	3089	8	ACH07172	Human sec
1316	200.2	7.3	3089	8	ACH12512	cDNA enco	1389	200.2	7.3	3089	8	ACH07479	Human sec
1317	200.2	7.3	3089	8	ACH09935	Human sec	1390	200.2	7.3	3089	8	ACH08093	Human sec
1318	200.2	7.3	3089	8	ACD03790	Human sec	1391	200.2	7.3	3089	8	ACH11284	cDNA enco
1319	200.2	7.3	3089	8	ACD10328	Human sec	1392	200.2	7.3	3089	8	ACH11591	cDNA enco
1320	200.2	7.3	3089	8	ACD11970	Human sec	1393	200.2	7.3	3089	8	ACH10242	Human sec
1321	200.2	7.3	3089	8	ACF42355	Human sec	1394	200.2	7.3	3089	8	ACF01245	Human sec
1322	200.2	7.3	3089	8	ADA27682	Human cDN	1395	200.2	7.3	3089	8	ACF40820	Human sec
1323	200.2	7.3	3089	8	ACF18376	Human sec	1396	200.2	7.3	3089	8	ACD24160	Human sec
1324	200.2	7.3	3089	8	ACF02166	Human sec	1397	200.2	7.3	3089	8	ACD31261	Human sec
1325	200.2	7.3	3089	8	ACF21674	Human sec	1398	200.2	7.3	3089	8	ACF17762	Human sec
1326	200.2	7.3	3089	8	ACF10358	Human sec	1399	200.2	7.3	3089	8	ADA38487	Human cDN
1327	200.2	7.3	3089	8	ACF33810	Human sec	1400	200.2	7.3	3089	8	ACF32545	Human sec
1328	200.2	7.3	3089	8	ACF44772	Human sec	1401	200.2	7.3	3089	8	ACF40206	Human sec
1329	200.2	7.3	3089	8	ACD90404	Human sec	1402	200.2	7.3	3089	8	ACF48166	Human sec
1330	200.2	7.3	3089	8	ACD91017	Human sec	1403	200.2	7.3	3089	8	ACF38115	Human sec
1331	200.2	7.3	3089	8	ACF30328	Human sec	1404	200.2	7.3	3089	8	ACF25051	Human sec
1332	200.2	7.3	3089	8	ACD87027	Human sec	1405	200.2	7.3	3089	8	ACF26951	Human sec
1333	200.2	7.3	3089	8	ACF60081	Human sec	1406	200.2	7.3	3089	8	ACF29407	Human sec
1334	200.2	7.3	3089	8	ACF46631	Human sec	1407	200.2	7.3	3089	8	ACD87641	Human sec
1335	200.2	7.3	3089	8	ACF75488	Human sec	1408	200.2	7.3	3089	8	ACF76102	Human sec
1336	200.2	7.3	3089	8	ADA79605	Human sec	1409	200.2	7.3	3089	8	ACF49394	Human sec
1337	200.2	7.3	3089	8	ACF17148	Human sec	1410	200.2	7.3	3089	8	ACF43851	Human sec

1411	200.2	7.3	3089	8	ACH06196	cdNA enco	1484	200.2	7.3	3089	8	ACF48473	Human sec
1412	200.2	7.3	3089	8	ACH06503	cdNA enco	1485	200.2	7.3	3089	8	ACD47263	Human sec
1413	200.2	7.3	3089	8	ADA83130	Human sec	1486	200.2	7.3	3089	8	ACD49105	Human sec
1414	200.2	7.3	3089	8	ACC92559	Human sec	1487	200.2	7.3	3089	8	ACF37808	Human sec
1415	200.2	7.3	3089	8	ACC93173	Human sec	1488	200.2	7.3	3089	8	ACF30021	Human sec
1416	200.2	7.3	3089	8	ACF19218	Human sec	1489	200.2	7.3	3089	8	ACD87334	Human sec
1417	200.2	7.3	3089	8	ACD12909	Human sec	1490	200.2	7.3	3089	8	ACF61923	Human sec
1418	200.2	7.3	3089	8	ACF06367	Human sec	1491	200.2	7.3	3089	8	ACH10856	Human sec
1419	200.2	7.3	3089	8	ACC94401	Human sec	1492	200.2	7.3	3089	8	ACD10021	Human sec
1420	200.2	7.3	3089	8	ACC97829	Human sec	1493	200.2	7.3	3089	8	ACD16746	cdNA enco
1421	200.2	7.3	3089	8	ACC94094	Human sec	1494	200.2	7.3	3089	8	ACH65299	Human cDN
1422	200.2	7.3	3089	8	ACF42048	Human sec	1495	200.2	7.3	3089	8	ACG99043	Human sec
1423	200.2	7.3	3089	8	ACD30954	Human sec	1496	200.2	7.3	3089	8	ACF00437	Human sec
1424	200.2	7.3	3089	8	ACD42983	cdNA enco	1497	200.2	7.3	3089	8	ACD40904	Human sec
1425	200.2	7.3	3089	8	ACD43290	cdNA enco	1498	200.2	7.3	3089	8	ACF14513	Human sec
1426	200.2	7.3	3089	8	ACF14820	Human sec	1499	200.2	7.3	3089	8	ACF22288	Human sec
1427	200.2	7.3	3089	8	ADA92608	Human cDN	1500	200.2	7.3	3089	8	ACF78865	Human sec
1428	200.2	7.3	3089	8	ACF01552	Human sec							
1429	200.2	7.3	3089	8	ACF31624	Human sec							
1430	200.2	7.3	3089	8	ACD67301	cdNA enco							
1431	200.2	7.3	3089	8	ACD48491	Human sec							
1432	200.2	7.3	3089	8	ACD48798	Human sec							
1433	200.2	7.3	3089	8	ACF51236	Human sec							
1434	200.2	7.3	3089	8	ACF53999	Human sec							
1435	200.2	7.3	3089	8	ACF25723	Human sec							
1436	200.2	7.3	3089	8	ACF39036	Human sec							
1437	200.2	7.3	3089	8	ACF28793	Human sec							
1438	200.2	7.3	3089	8	ACD90710	Human sec							
1439	200.2	7.3	3089	8	ACD86413	Human sec							
1440	200.2	7.3	3089	8	ACH05275	cdNA enco							
1441	200.2	7.3	3089	8	ACF65071	Human sec							
1442	200.2	7.3	3089	8	ADB20173	Human sec							
1443	200.2	7.3	3089	8	ACF43544	Human sec							
1444	200.2	7.3	3089	8	ACH09014	Human sec							
1445	200.2	7.3	3089	8	ACH09321	Human sec							
1446	200.2	7.3	3089	8	ADA78425	Human sec							
1447	200.2	7.3	3089	8	ACF09744	Human sec							
1448	200.2	7.3	3089	8	ACF50929	Human sec							
1449	200.2	7.3	3089	8	ACF23823	Human sec							
1450	200.2	7.3	3089	8	ACH88255	Human sec							
1451	200.2	7.3	3089	8	ACH09628	Human sec							
1452	200.2	7.3	3089	8	ACH10549	Human sec							
1453	200.2	7.3	3089	8	ACD11356	Human sec							
1454	200.2	7.3	3089	8	ACC96406	Human sec							
1455	200.2	7.3	3089	8	ACC98436	Human sec							
1456	200.2	7.3	3089	8	ACF41741	Human sec							
1457	200.2	7.3	3089	8	ACF16662	Human sec							
1458	200.2	7.3	3089	8	ACD32182	Human sec							
1459	200.2	7.3	3089	8	ACD30340	Human sec							
1460	200.2	7.3	3089	8	ACD41211	Human sec							
1461	200.2	7.3	3089	8	ACF07595	Human sec							
1462	200.2	7.3	3089	8	ACF31010	Human sec							
1463	200.2	7.3	3089	8	ACF77330	Human sec							
1464	200.2	7.3	3089	8	ACF10972	Human sec							
1465	200.2	7.3	3089	8	ACF32852	Human sec							
1466	200.2	7.3	3089	8	ACF26030	Human sec							
1467	200.2	7.3	3089	8	ACD83343	Human PRO							
1468	200.2	7.3	3089	8	ACF23516	Human sec							
1469	200.2	7.3	3089	8	ACF42930	Human sec							
1470	200.2	7.3	3089	8	ACF43237	Human sec							
1471	200.2	7.3	3089	8	ACH05889	cdNA enco							
1472	200.2	7.3	3089	8	ACH08707	Human sec							
1473	200.2	7.3	3089	8	ACC90301	Human sec							
1474	200.2	7.3	3089	8	ACF10665	Human sec							
1475	200.2	7.3	3089	8	ACC93480	Human sec							
1476	200.2	7.3	3089	8	ACC96099	Human sec							
1477	200.2	7.3	3089	8	ACD24774	Human sec							
1478	200.2	7.3	3089	8	ACF01859	Human sec							
1479	200.2	7.3	3089	8	ACF21981	Human sec							
1480	200.2	7.3	3089	8	ACF22595	Human sec							
1481	200.2	7.3	3089	8	ACF08823	Human sec							
1482	200.2	7.3	3089	8	ACF33159	Human sec							
1483	200.2	7.3	3089	8	ACF54613	Human sec							

ALIGNMENTS

RESULT 1

ID AAA99905 standard; cdNA; 2749 BP.

XX AAA99905;

XX 26-JAN-2001 (first entry)

XX cDNA encoding human protein PRO846.

XX Cardiovascular; endothelial; angiogenic disorder; PRO179; PRO238; PRO364;
 KW PRO844; PRO846; PRO1760; PRO205; PRO321; PRO333; PRO840; PRO877; PRO878;
 KW PRO879; PRO882; PRO885; PRO887; gene therapy; ss.

XX Homo sapiens.

OS Key Location/Qualifiers
 XX CDS 25..1023
 FT /*tag= a

XX WO200053757-A2.

XX 14-SEP-2000.

XX 24-FEB-2000; 2000WO-US005004.

XX 08-MAR-1999; 99WO-US005028.

XX 12-MAR-1999; 99US-0123957P.

XX 02-JUN-1999; 99WO-US012252.

XX 20-JUL-1999; 99US-0144758P.

XX 26-JUL-1999; 99US-0145698P.

XX 01-SEP-1999; 99WO-US020111.

XX 15-SEP-1999; 99WO-US021090.

XX 30-NOV-1999; 99WO-US028313.

XX 30-NOV-1999; 99WO-US028409.

XX 02-DEC-1999; 99WO-US028565.

XX 05-JAN-2000; 2000WO-US000219.

XX 18-FEB-2000; 2000WO-US000434.

XX 22-FEB-2000; 2000WO-US000441.

XX (GETH) GENENTECH INC.

XX Ashkenazi AJ, Baker KP, Ferrara N, Gerber H, Gerritsen ME;

XX Goddard A, Gurney AL, Hillan KJ, Marsters SA, Paoni NF, Pitti RM;

XX Watanabe CK, Williams PM, Wood WI;

XX WPI; 2000-611444/58.

XX P-PSDB; AAB27653.

XX Novel PRO polypeptides and agonists and antagonists of them, used to

diagnose and treat cardiovascular, endothelial and angiogenic disorders.

Claim 60; Fig 9; 181pp; English.

The present invention relates to methods for stimulating or inhibiting angiogenesis and cardiovascularization. The methods involve the use of pharmaceutical compositions based on the following proteins, PRO179, PRO238, PRO364, PRO844, PRO846, PRO1760, PRO205, PRO321, PRO333, PRO840, PRO877, PRO878, PRO879, PRO882, PRO885 or PRO887. These proteins were identified by isolating cDNA clones encoding secreted proteins. The proteins of the invention may be used to diagnose and treat cardiovascular, endothelial or angiogenic disorders. The present sequence is a cDNA clone encoding one of the proteins of the invention

Sequence 2749 BP; 599 A; 811 C; 698 G; 639 T; 0 U; 2 Other;

Sequence 2749 BP; 599 A; 811 C; 698 G; 639 T; 0 U; 2 Other;

ery Match 99.9%; Score 2747; DB 3; Length 2749;

1st Local Similarity 100.0%; Pred. No. 0;

Seq. No.	Seq. Name	Seq. Length	Seq. Type	Seq. Source	Seq. Accession	Seq. Date	Seq. Status	Seq. Comment
1	Seq. 1	100.00	Conservative	0	0	0	0	0
2	Seq. 2	100.00	Conservative	0	0	0	0	0
3	Seq. 3	100.00	Conservative	0	0	0	0	0
4	Seq. 4	100.00	Conservative	0	0	0	0	0
5	Seq. 5	100.00	Conservative	0	0	0	0	0
6	Seq. 6	100.00	Conservative	0	0	0	0	0
7	Seq. 7	100.00	Conservative	0	0	0	0	0
8	Seq. 8	100.00	Conservative	0	0	0	0	0
9	Seq. 9	100.00	Conservative	0	0	0	0	0
10	Seq. 10	100.00	Conservative	0	0	0	0	0
11	Seq. 11	100.00	Conservative	0	0	0	0	0
12	Seq. 12	100.00	Conservative	0	0	0	0	0
13	Seq. 13	100.00	Conservative	0	0	0	0	0
14	Seq. 14	100.00	Conservative	0	0	0	0	0
15	Seq. 15	100.00	Conservative	0	0	0	0	0
16	Seq. 16	100.00	Conservative	0	0	0	0	0
17	Seq. 17	100.00	Conservative	0	0	0	0	0
18	Seq. 18	100.00	Conservative	0	0	0	0	0
19	Seq. 19	100.00	Conservative	0	0	0	0	0
20	Seq. 20	100.00	Conservative	0	0	0	0	0
21	Seq. 21	100.00	Conservative	0	0	0	0	0
22	Seq. 22	100.00	Conservative	0	0	0	0	0
23	Seq. 23	100.00	Conservative	0	0	0	0	0
24	Seq. 24	100.00	Conservative	0	0	0	0	0
25	Seq. 25	100.00	Conservative	0	0	0	0	0
26	Seq. 26	100.00	Conservative	0	0	0	0	0
27	Seq. 27	100.00	Conservative	0	0	0	0	0
28	Seq. 28	100.00	Conservative	0	0	0	0	0
29	Seq. 29	100.00	Conservative	0	0	0	0	0
30	Seq. 30	100.00	Conservative	0	0	0	0	0
31	Seq. 31	100.00	Conservative	0	0	0	0	0
32	Seq. 32	100.00	Conservative	0	0	0	0	0
33	Seq. 33	100.00	Conservative	0	0	0	0	0
34	Seq. 34	100.00	Conservative	0	0	0	0	0
35	Seq. 35	100.00	Conservative	0	0	0	0	0
36	Seq. 36	100.00	Conservative	0	0	0	0	0
37	Seq. 37	100.00	Conservative	0	0	0	0	0
38	Seq. 38	100.00	Conservative	0	0	0	0	0
39	Seq. 39	100.00	Conservative	0	0	0	0	0
40	Seq. 40	100.00	Conservative	0	0	0	0	0
41	Seq. 41	100.00	Conservative	0	0	0	0	0
42	Seq. 42	100.00	Conservative	0	0	0	0	0
43	Seq. 43	100.00	Conservative	0	0	0	0	0
44	Seq. 44	100.00	Conservative	0	0	0	0	0
45	Seq. 45	100.00	Conservative	0	0	0	0	0
46	Seq. 46	100.00	Conservative	0	0	0	0	0
47	Seq. 47	100.00	Conservative	0	0	0	0	0
48	Seq. 48	100.00	Conservative	0	0	0	0	0
49	Seq. 49	100.00	Conservative	0	0	0	0	0
50	Seq. 50	100.00	Conservative					

1	CTCCACGGTGTCCAGGGCCAGAAATGCGGCTTCTGGTCTCTGCTATATGGGGTTGCTCTGCTG	60
1	CTCCACGGTGTCCAGGGCCAGAAATGCGGCTTCTGGTCTCTGCTATATGGGGTTGCTCTGCTG	60
61	CTCCACGGTTATGAAGCCCTGGAGGGCCAGAGGAATCAGCGGTTTCGAAGGGGACACT	120
61	CTCCACGGTTATGAAGCCCTGGAGGGCCAGAGGAATCAGCGGTTTCGAAGGGGACACT	120
121	GTGTCCCTGCAGTGCACTTACAGGGGAAGAGCTGAGGGACACCCGGGAAGTACTGGTGCAGG	180
121	GTGTCCCTGCAGTGCACTTACAGGGGAAGAGCTGAGGGACACCCGGGAAGTACTGGTGCAGG	180
181	AAGGGTGGATCCTCTTCTCTGCTGCTCTGGCAACCATATATGCAGAAAGAGGCCAG	240
181	AAGGGTGGATCCTCTTCTCTGCTGCTCTGGCAACCATATATGCAGAAAGAGGCCAG	240
241	GAGACAAATGAAGGCGAGGGTGTCCATCCGTGACAGCGCGCAGGAGCTCTCGCTCATTTGG	300
241	GAGACAAATGAAGGCGAGGGTGTCCATCCGTGACAGCGCGCAGGAGCTCTCGCTCATTTGG	300
301	ACCCTGTGAAACCTCAACCTTGCAGAGACGCTGGGGAGTACTGTGTGTGGGGTTCGAAAACGG	360
301	ACCCTGTGAAACCTCAACCTTGCAGAGACGCTGGGGAGTACTGTGTGTGGGGTTCGAAAACGG	360
361	GGCCCCGATGAGTCTTATCATCTCTCTGTGCTTTTCCAGGACCCCTGCTGTCTCTCC	420
361	GGCCCCGATGAGTCTTATCATCTCTCTGTGCTTTTCCAGGACCCCTGCTGTCTCTCC	420
421	TCCCCTTCTCCACCTTTCAGGCTCTGAGCTTACAAACAGCGCTGCAGGCCCAAGGCAAAAGCT	480
421	TCCCCTTCTCCACCTTTCAGGCTCTGAGCTTACAAACAGCGCTGCAGGCCCAAGGCAAAAGCT	480
481	CAGCAAAACCGAGCCCCAGATTTGATTTCTCTGTGGGCTCTACCCGGGACGCCACACAGCC	540
481	CAGCAAAACCGAGCCCCAGATTTGATTTCTCTGTGGGCTCTACCCGGGACGCCACACAGCC	540
541	AAGCAGGGGAAGACAGGGGCTGAGGGCCCTCCATTTGCCAGGGACTTCCAGTACGGGGAC	600
541	AAGCAGGGGAAGACAGGGGCTGAGGGCCCTCCATTTGCCAGGGACTTCCAGTACGGGGAC	600
601	GAAAGGACTTCTCAGTACACAGGAACCTCTCTCTCACCGACGACCTCTCTCTCTGACGGG	660
601	GAAAGGACTTCTCAGTACACAGGAACCTCTCTCTCACCGACGACCTCTCTCTCTGACGGG	660
661	AGTCTCGGGCCCCCATATGCAGTGGACTTCCACTCTCAGAGAGGACACCGAGTCCAGTCTTC	720
661	AGTCTCGGGCCCCCATATGCAGTGGACTTCCACTCTCAGAGAGGACACCGAGTCCAGTCTTC	720
721	AGCAGTGGGACGCTTAAGCCCAAGGCTGCATCCCGATGTCGCGCATCTGGCCCCCAGTTC	780
721	AGCAGTGGGACGCTTAAGCCCAAGGCTGCATCCCGATGTCGCGCATCTGGCCCCCAGTTC	780
781	CTGGTGTGCTGAGCCCTTCTGTGAGCGCGCAGGCGCTGATGCGCTTCTGCGAGCACCCTGCTC	840

Db	1961	TTGCTTNNCCATTTCGGCTCCCTGGNCCATGCCTCTTGCGCTTTGGAAAAAATGATGA	1921
Qy	1921	GAAACCTTTGGCTCCTTCTCTTGTCTGGAAAGGGTTACTTGCCTATGGGTTCTCGTGGCTA	1980
Db	1921	GAAACCTTTGGCTCCTTCTCTTGTCTGGAAAGGGTTACTTGCCTATGGGTTCTCGTGGCTA	1980
Qy	1981	GAGAGAAAAGTAGAAAACCAGAGTGCACGTAGTGTCTTAACAACAGACGAGAGTAGGAACA	2040
Db	1981	GAGAGAAAAGTAGAAAACCAGAGTGCACGTAGTGTCTTAACAACAGACGAGAGTAGGAACA	2040
Qy	2041	GGGCGGATACCTCGAAGGTGACTCCGAGTCCAGGCCCTGGAGAAGGGGTCCGGGGTGGTG	2100
Db	2041	GGGCGGATACCTCGAAGGTGACTCCGAGTCCAGGCCCTGGAGAAGGGGTCCGGGGTGGTG	2100
Qy	2101	GTAAGTAGCACAACTACTATTTTTTTTCTTTTTTCCAATTATTTGTTTTTAAAGACAGA	2160
Db	2101	GTAAGTAGCACAACTACTATTTTTTTTCTTTTTTCCAATTATTTGTTTTTAAAGACAGA	2160
Qy	2161	ATCTCGTGTGCTGCCCAGGCTGAGTGCAGTGGCAAGATCTGCAAACCTCGGCTCTCTGG	2220
Db	2161	ATCTCGTGTGCTGCCCAGGCTGAGTGCAGTGGCAAGATCTGCAAACCTCGGCTCTCTGG	2220
Qy	2221	GTTCAAGTGATCTTCTGCGCTCAGCTCCCGAGTGTGGGATTTACAGGCGACCGACCCACC	2280
Db	2221	GTTCAAGTGATCTTCTGCGCTCAGCTCCCGAGTGTGGGATTTACAGGCGACCGACCCACC	2280
Qy	2281	ACACTCGGCTAAATTTTGTACTTTTAGTAGAGATGGGGTTTTCACCATGTTGGCCAGGCTG	2340
Db	2281	ACACTCGGCTAAATTTTGTACTTTTAGTAGAGATGGGGTTTTCACCATGTTGGCCAGGCTG	2340
Qy	2341	GTCCTTGAACCTCTGACCTCAAAATGAGCGCTCTGCTTCAGTCTCCCATAATTCGCGGGATTA	2400
Db	2341	GTCCTTGAACCTCTGACCTCAAAATGAGCGCTCTGCTTCAGTCTCCCATAATTCGCGGGATTA	2400
Qy	2401	CAGSCATGAGCCACTGTGCTGGCCCTATTTTCTTTTAAAGTCAAAATTAAGAGTTGTTTC	2460
Db	2401	CAGSCATGAGCCACTGTGCTGGCCCTATTTTCTTTTAAAGTCAAAATTAAGAGTTGTTTC	2460
Qy	2461	AGTATGCAAACTTTGGAAAGATGGAGAGAAAAAGAAAAAGAAAAAATGTCACCCA	2520
Db	2461	AGTATGCAAACTTTGGAAAGATGGAGAGAAAAAGAAAAAGAAAAAATGTCACCCA	2520
Qy	2521	TAGTCTCACAGAGACTATCATTTATTTGTTTGTGTACTTCTCTTCCACTCTTTTCTTTC	2580
Db	2521	TAGTCTCACAGAGACTATCATTTATTTGTTTGTGTACTTCTCTTCCACTCTTTTCTTTC	2580
Qy	2581	TTACATAAATTTGCGGTGTTCTTTTACAGAGCAATTAATCTGTATATACAACTTTGTA	2640
Db	2581	TTACATAAATTTGCGGTGTTCTTTTACAGAGCAATTAATCTGTATATACAACTTTGTA	2640
Qy	2641	TCCTGCGCTTTTCCACCTTATCGTTTCCATCACTTTATTCAGACACTTCTCTGTGTTTACA	2700
Db	2641	TCCTGCGCTTTTCCACCTTATCGTTTCCATCACTTTATTCAGACACTTCTCTGTGTTTACA	2700
Qy	2701	GACCTTTTATATAAATAAATGTTTCATCAGCTGCATATAAAAAAAAAAAAAA	2749
Db	2701	GACCTTTTATATAAATAAATGTTTCATCAGCTGCATATAAAAAAAAAAAAAA	2749
RESULT 2			
AAA88517			
ID AAA88517 standard; cDNA; 2749 BP.			
XX AAA88517;			
AC .			
XX 22-JAN-2001 (first entry)			
DE Human PRO846 cDNA clone DNA44196-1353.			

2281	ACACCTGGCTAAATTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTG	2340
2341	GTCTTGAACCTCTGACCTCAAATGAGCGCTCCTGCTTCAGTCTCCCAAATTCGCGGGATTA	2400
2341	GTCTTGAACCTCTGACCTCAAATGAGCGCTCCTGCTTCAGTCTCCCAAATTCGCGGGATTA	2400
2401	CAGGCATGAGCCACTGTGCTCGGCCCTATTTCCTTTAAAAAGTGAANTTAAGAGTTGTTC	2460
2401	CAGGCATGAGCCACTGTGCTCGGCCCTATTTCCTTTAAAAAGTGAANTTAAGAGTTGTTC	2460
2461	AGTATGCAAAACCTTGGAAAGATGGAGGAGAAAAAGAAAGCGAGAAAAAATGTCAACCCA	2520
2461	AGTATGCAAAACCTTGGAAAGATGGAGGAGAAAAAGAAAGCGAGAAAAAATGTCAACCCA	2520
2521	TAGTCTCACAGAGACTATCAATATTTCGTTTGTGTACTTCTCTCCACTCTCTTTCTTC	2580
2521	TAGTCTCACAGAGACTATCAATATTTCGTTTGTGTACTTCTCTCCACTCTCTTTCTTC	2580
2581	TTCACATAAATTTGCGGTGTCTTTTTACAGAGCAATTAATCTGTATATACAACTTTGTA	2640
2581	TTCACATAAATTTGCGGTGTCTTTTTACAGAGCAATTAATCTGTATATACAACTTTGTA	2640
2641	TCCTGCCCTTTTCCACTTATCGTTTCCACTATTATTCAGAGCACTCTCTGTGTTTTTACA	2700
2641	TCCTGCCCTTTTCCACTTATCGTTTCCACTATTATTCAGAGCACTCTCTGTGTTTTTACA	2700
2701	GACCTTTTATAAATAAAATGTTTCATCAGCTGCATATAAAAAAAAAAAAAA	2749
2701	GACCTTTTATAAATAAAATGTTTCATCAGCTGCATATAAAAAAAAAAAAAA	2749

RESULTS

RESOLUT 3
AAC78503
ID AAC78503 standard: cDNA: 2749 BP.

AAC78503;

08-FEB-2001 (first entry)

XX DE Human PRO846 (UNO422) nucleotide sequence SEQ ID NO:215.

Human; secreted protein; transmembrane protein; PRO; EST; cytostatic;
KW expressed sequence tag; detection: cancer: ss.

XX Homo sapiens.

PN WO200053756-A2.

PD 14-SEP-2000.

18-FEB-2000; 2000WO-US004341.

PR 08-MAR-1999; 99WO-US005028.

PR 29-MAR-1999; 99US-0126773P.

PR 21-APR-1999; 99US-013023ZF.
PR 28-APR-1999; 99US-0131445P.

FK I4-MAY-1999; 330S-0134287E;
PB 23-JUN-1999; 99US-0141037P.

PR 28-JUL-1999; 33US-VI43838E
PR 29-OCT-1999; 33US-0162506E

PR 30-NOV-1999; 39WC-US028313
PR 02-DEC-1999; 99WO-US028551.

PK 02-DEC-1999; 33WO-US028383
PR 16-DEC-1999; 99WO-US030095.

PR 30-DEC-1999: 99WO-US031274.
PR 30-DEC-1999: 99WO-US031274.
PR 30-DEC-1999: 99WO-US031274.

FK 03-JAN-2000; 2000WC-US000213.
PR 06-JAN-2000: 2000WO-US000277.

XX
FR 08-JAN-2000; 2000WC-US0000378.

PA (GETH) GENENTECH INC.
XX

PI	Askenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI	Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
PI	Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ;
PI	Klajavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
PI	Stewart TA, Tumas D, Williams PM, Wood WI;
XX	
WPI	2000-611443/58.
DR	P-PSDB; AAB44273.
DR	
XX	
XX	
PT	Novel PRO polypeptides and polynucleotides used in detection methods, to
PT	target bioactive molecules to specific cells, and to modulate cellular
PT	activities.
XX	
XX	
PS	Claim 2; Fig 78; 636pp; English.
XX	
CC	AAC78458 to AAC78599 represent polynucleotide and EST (expressed sequence
CC	tag) sequences which encode secreted or transmembrane PRO polypeptides.
CC	The PRO polynucleotides and polypeptides have cytotstatic activity. The
CC	polynucleotides and polypeptides can be used for detecting the presence
CC	of PRO polypeptides in samples, for linking bioactive molecules to cells
CC	and for modulating biological activities of cells, using the polypeptides
CC	for specific targeting. The polypeptide targeting can be used to kill the
CC	target cells, e.g. for the treatment of cancers. The polypeptide pairs
CC	provide specific targeting of bioactive molecules to cells. AAC78600 to
CC	AAC78987 represent PCR primers and probes used in the isolation of the
CC	PRO polynucleotide sequences
XX	
XX	
SQ	Sequence 2749 BP; 599 A; 811 C; 698 G; 639 T; 0 U; 2 Other;

Query Match 99.9%; Score 2747; DB 3; Length 2749;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 2749; Conservative 0; Mismatches 0; Indels 0

QY	1	CTCC	CAGGTGT	CCAG	CGCC	CAGAA	TCCGG	CTCT	TGTC	CTCT	GTCT	TAT	TGGG	TTC	TGCT	GTG	60
Db	1	CTCC	CAGGTGT	CCAG	CGCC	CAGAA	TCCGG	CTCT	TGTC	CTCT	GTCT	TAT	TGGG	TTC	TGCT	GTG	60
QY	61	CTCC	CAGGTAT	TGA	AGCC	CTGG	AGG	CC	CAG	AGG	AAAT	TCAG	CGGT	TT	CGA	AGG	120
Db	61	CTCC	CAGGTAT	TGA	AGCC	CTGG	AGG	CC	CAG	AGG	AAAT	TCAG	CGGT	TT	CGA	AGG	120
QY	121	GTG	TCC	CTG	CAG	TGCA	CTT	CAG	GGA	AGAG	GTG	AGG	GA	CCA	CCG	GAAG	180
Db	121	GTG	TCC	CTG	CAG	TGCA	CTT	CAG	GGA	AGAG	GTG	AGG	GA	CCA	CCG	GAAG	180
QY	181	AAG	GGT	GGG	AT	CC	TTC	TCT	CG	CTG	CT	TGG	CA	CC	AT	TCT	240
Db	181	AAG	GGT	GGG	AT	CC	TTC	TCT	CG	CTG	CT	TGG	CA	CC	AT	TCT	240
QY	241	GAG	ACA	TGA	AGG	GC	AGG	TG	TC	AT	CCG	TG	ACA	GC	CG	CC	300
Db	241	GAG	ACA	TGA	AGG	GC	AGG	TG	TC	AT	CCG	TG	ACA	GC	CG	CC	300
QY	301	ACC	CTG	TGG	AA	CT	CAC	CC	TG	CA	AG	AC	GTG	GG	GA	T	360
Db	301	ACC	CTG	TGG	AA	CT	CAC	CC	TG	CA	AG	AC	GTG	GG	GA	T	360
QY	361	GG	CCCC	GA	TG	AG	TCT	T	TACT	GA	TCT	T	CT	GT	T	CT	420
Db	361	GG	CCCC	GA	TG	AG	TCT	T	TACT	GA	TCT	T	CT	GT	T	CT	420
QY	421	TCC	CC	T	T	CT	CC	CT	TCG	CT	ACA	AC	AG	CC	CT	G	480
Db	421	TCC	CC	T	T	CT	CC	CT	TCG	CT	ACA	AC	AG	CC	CT	G	480
QY	481	CAG	CAA	A	CC	CAG	CC	CC	CAG	GA	T	T	CT	CT	GG	CT	540
Db	481	CAG	CAA	A	CC	CAG	CC	CC	CAG	GA	T	T	CT	CT	GG	CT	540
QY	541	AAG	CAG	GGG	GA	G	AG	GG	CC	CT	CCA	T	TG	CC	AG	GA	600
Db	541	AAG	CAG	GGG	GA	G	AG	GG	CC	CT	CCA	T	TG	CC	AG	GA	600

QY 601 GAAAGGACTTCTCAGTACACAGGAACCTCTCCTCACCCAGCGACCTCTCTCTCTCGAGGG 660
DB 601 GAAAGGACTTCTCAGTACACAGGAACCTCTCCTCACCCAGCGACCTCTCTCTCTCGAGGG 660
QY 661 AGCTCCGCGCCGCCATGCGAGCTGGAATCTCACTCAGCAGAGACACAGTCCAGCTCTC 720
DB 661 AGCTCCGCGCCGCCATGCGAGCTGGAATCTCACTCAGCAGAGACACAGTCCAGCTCTC 720
QY 721 AGCAGTGGCAGCTCTAAGCCAGGCTGTCCATCCGATGTCGCGATACCTGCGCCCAAGTC 780
DB 721 AGCAGTGGCAGCTCTAAGCCAGGCTGTCCATCCGATGTCGCGATACCTGCGCCCAAGTC 780
QY 781 CTGTGTCTGTGAGCTTCTGTCTCAGCCGAGGCTGATCGCCCTTCTCAGCCACCTGCTC 840
DB 781 CTGTGTCTGTGAGCTTCTGTCTCAGCCGAGGCTGATCGCCCTTCTCAGCCACCTGCTC 840
QY 841 CTGTGGAGAAAGGAGCTCAACAGGCCACGAGACACAGAGGAACGAGAAAGTTCTGGCTC 900
DB 841 CTGTGGAGAAAGGAGCTCAACAGGCCACGAGACACAGAGGAACGAGAAAGTTCTGGCTC 900
QY 901 TCAGCTTGTACTCGGAGGAAGGAAGCCCTTCCAGGCCCTCGAGGGGAGCGTGATC 960
DB 901 TCAGCTTGTACTCGGAGGAAGGAAGCCCTTCCAGGCCCTCGAGGGGAGCGTGATC 960
QY 961 TCGATGCTCTCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
DB 961 TCGATGCTCTCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
QY 1021 TAGGGCAGGAGGCGCTCTCTGGCCAGGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080
DB 1021 TAGGGCAGGAGGCGCTCTCTGGCCAGGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080
QY 1081 ACCGATTTCCGGAAGCTTTCCACTCAGCTCAGCTCAGCTGCGCGGACTCCAGGGCT 1140
DB 1081 ACCGATTTCCGGAAGCTTTCCACTCAGCTCAGCTCAGCTGCGCGGACTCCAGGGCT 1140
QY 1141 CTCGCCACCTCCCGAGGCTCTCTCTTTGATGTTCCAGGCTGACCTAGAAAGGTTTGTGTC 1200
DB 1141 CTCGCCACCTCCCGAGGCTCTCTCTTTGATGTTCCAGGCTGACCTAGAAAGGTTTGTGTC 1200
QY 1201 AGCCTGGAGCCAGAGCGGTGGCTTCTCTCCGCTGGAGACTGGGACATCCCTGAT 1260
DB 1201 AGCCTGGAGCCAGAGCGGTGGCTTCTCTCCGCTGGAGACTGGGACATCCCTGAT 1260
QY 1261 AGGTTACATCCCTGGGAGTACCAAGCTGCTGACCCCTCAGCAGGSCCAGACAAGGCT 1320
DB 1261 AGGTTACATCCCTGGGAGTACCAAGCTGCTGACCCCTCAGCAGGSCCAGACAAGGCT 1320
QY 1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACCTCTGGGCTTCAATGCCAGTGTG 1380
DB 1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACCTCTGGGCTTCAATGCCAGTGTG 1380
QY 1381 GACCTGCTTCTCCCACTCCAGACCCAGCTTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1440
DB 1381 GACCTGCTTCT 1440
QY 1441 TTAGTCCAGGCT 1500
DB 1441 TTAGTCCAGGCT 1500
QY 1501 GGATTTCTGGCTTCTCTTTGAACCACTCCAGCCCTTCCAGGAAGCTGTGGAAGACG 1560
DB 1501 GGATTTCTGGCTTCTCTTTGAACCACTCCAGCCCTTCCAGGAAGCTGTGGAAGACG 1560
QY 1561 TGATTTCTGGCCCAACCAAGACCCCAACCAACCACTCTCTCTCTCTCTCTCTCTCTCTCTCT 1620
DB 1561 TGATTTCTGGCCCAACCAAGACCCCAACCAACCACTCTCTCTCTCTCTCTCTCTCTCTCTCT 1620
QY 1621 ATTCTACAAATGCCAGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1680
DB 1621 ATTCTACAAATGCCAGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1680
QY 1681 GCTCACACCCCTTCAGCTTAGAGTCTGATTTGGGCTGTGAGCTCTCCACCTGCCCCCAAT 1740

DB 1681 GCTCACACCCCTTCAGCTTAGAGTCTGCAATTTGGGCTGTGACGCTCTCCACCTGCCCAAT 1740
QY 1741 AGATCTGCTCTGCTCGGACACAGATCCAGTGGGAGCTCCCTCTGAGGCTGCTAAGTC 1800
DB 1741 AGATCTGCTCTGCTCGGACACAGATCCAGTGGGAGCTCCCTCTGAGGCTGCTAAGTC 1800
QY 1801 CAGGCTTGTCTCAGGTCAGGTGCAATTCAGGATAAGCCAGGACCGGCACAGAAAGTGG 1860
DB 1801 CAGGCTTGTCTCAGGTCAGGTGCAATTCAGGATAAGCCAGGACCGGCACAGAAAGTGG 1860
QY 1861 TTGCTTTTNCATTTGCTCCCTCTGNCATGCTCTTGGCTTTTGAAAAAATGATGAA 1920
DB 1861 TTGCTTTTNCATTTGCTCCCTCTGNCATGCTCTTGGCTTTTGAAAAAATGATGAA 1920
QY 1921 GAAAACTTTGGCTCTCTGTAAGGCTTACTTGGCTTATGGGTTCTGGGCTA 1980
DB 1921 GAAAACTTTGGCTCTCTGTAAGGCTTACTTGGCTTATGGGTTCTGGGCTA 1980
QY 1981 GAGAGAAAAGTAGAAAAACAGAGTGCACTGAGTGTCTTAACACAGAGGAGAGTAGGAACA 2040
DB 1981 GAGAGAAAAGTAGAAAAACAGAGTGCACTGAGTGTCTTAACACAGAGGAGAGTAGGAACA 2040
QY 2041 GGGCGGATACCTGAAAGTGACTCCAGTCCAGCCCTCGAGAAAGGGGTCGGGGGTTGGTG 2100
DB 2041 GGGCGGATACCTGAAAGTGACTCCAGTCCAGCCCTCGAGAAAGGGGTCGGGGGTTGGTG 2100
QY 2101 GTAAAGTAGCACAACCTACTATTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 2160
DB 2101 GTAAAGTAGCACAACCTACTATTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 2160
QY 2161 ATCTCGTGTCTGCTGCCAGGCTGGAGTGCACTGGGAGTCTGCAAACTCCGCTCTCTGG 2220
DB 2161 ATCTCGTGTCTGCTGCCAGGCTGGAGTGCACTGGGAGTCTGCAAACTCCGCTCTCTGG 2220
QY 2221 GTTCAAGTAGTCTTCTGCTCCTCAGCTCCGAGTCTGGGATTAAGGACGACCAACC 2280
DB 2221 GTTCAAGTAGTCTTCTGCTCCTCAGCTCCGAGTCTGGGATTAAGGACGACCAACC 2280
QY 2281 ACACCTGGCTAAATTTTGTACTTTTGTAGAGATGGGTTTACCAATGTTGGCCAGGCTG 2340
DB 2281 ACACCTGGCTAAATTTTGTACTTTTGTAGAGATGGGTTTACCAATGTTGGCCAGGCTG 2340
QY 2341 GTCTTGAACCTCTGACCTCAAAATGAGCTCTCTGCTTCAAGTTCGCGGATTA 2400
DB 2341 GTCTTGAACCTCTGACCTCAAAATGAGCTCTCTGCTTCAAGTTCGCGGATTA 2400
QY 2401 CAGGATGAGCCACTGTGTCTGGCCCTATTTTCTTTTAAAGTGAATTAAGAGTTGTTTC 2460
DB 2401 CAGGATGAGCCACTGTGTCTGGCCCTATTTTCTTTTAAAGTGAATTAAGAGTTGTTTC 2460
QY 2461 AGTATCAAAACTTGGAAAGATGGAGAGAAAAGAAAAGAAAAGAAAAGAAAAGTGCACCCA 2520
DB 2461 AGTATCAAAACTTGGAAAGATGGAGAGAAAAGAAAAGAAAAGAAAAGAAAAGTGCACCCA 2520
QY 2521 TAGTCTCACCAGAGACTATCATTTATTTGTTTGTGTTACTTCTTCCACTCTTTTCTTC 2580
DB 2521 TAGTCTCACCAGAGACTATCATTTATTTGTTTGTGTTACTTCTTCCACTCTTTTCTTC 2580
QY 2581 TTCAATAATTTGCGGTTCTTTTACAGAGCAATTAATCTTGTATATATACACTTTGTA 2640
DB 2581 TTCAATAATTTGCGGTTCTTTTACAGAGCAATTAATCTTGTATATATACACTTTGTA 2640
QY 2641 TCCCTGCTTTTCCACCTTATCTGTTCCATCACTTTATTTCCAGCACTCTCTGTTGTTTACA 2700
DB 2641 TCCCTGCTTTTCCACCTTATCTGTTCCATCACTTTATTTCCAGCACTCTCTGTTGTTTACA 2700
QY 2701 GACCTTTTATAAATAAAATGTTTCTCAGCTGCTATATAAAAAA 2749
DB 2701 GACCTTTTATAAATAAAATGTTTCTCAGCTGCTATATAAAAAA 2749

AAS21436
ID AAS21436 standard; cDNA; 2749 BP.
XX AC AAS21436;
XX
XX 24-OCT-2001 (first entry)
XX
XX Human cDNA sequence encoding for PRO846 polypeptide.
DE
XX
XX Human secretory and transmembrane; PRO; mammalian; cancer; lung; breast;
KW prostate; cervical; tumour necrosis factor-alpha; TNF-alpha; cartilage;
KW ear; proliferation; glucose; free fatty acid; skeletal muscle; adipocyte;
KW A-peptide; factor VIIA; gene therapy; ss.
XX
XX Homo sapiens.
XX
XX WO200140466-A2.
XX
XX 07-JUN-2001.
XX
XX 01-DEC-2000; 2000WO-US032678.
XX
XX 01-DEC-1999; 99WO-US028301.
XX 01-DEC-1999; 99WO-US028334.
XX 02-DEC-1999; 99WO-US028551.
XX 02-DEC-1999; 99WO-US028564.
XX 02-DEC-1999; 99WO-US028565.
XX 09-DEC-1999; 99US-0170262P.
XX 16-DEC-1999; 99WO-US030095.
XX 20-DEC-1999; 99WO-US030911.
XX 20-DEC-1999; 99WO-US030999.
XX 30-DEC-1999; 99WO-US031243.
XX 30-DEC-1999; 99WO-US031274.
XX 05-JAN-2000; 2000WO-US000219.
XX 06-JAN-2000; 2000WO-US000277.
XX 06-JAN-2000; 2000WO-US000376.
XX 11-FEB-2000; 2000WO-US003565.
XX 18-FEB-2000; 2000WO-US004341.
XX 18-FEB-2000; 2000WO-US004342.
XX 22-FEB-2000; 2000WO-US004414.
XX 24-FEB-2000; 2000WO-US004914.
XX 24-FEB-2000; 2000WO-US005004.
XX 01-MAR-2000; 2000WO-US005601.
XX 02-MAR-2000; 2000WO-US005841.
XX 03-MAR-2000; 2000US-0187202P.
XX 10-MAR-2000; 2000WO-US006319.
XX 15-MAR-2000; 2000WO-US006884.
XX 20-MAR-2000; 2000WO-US007377.
XX 21-MAR-2000; 2000WO-US007532.
XX 30-MAR-2000; 2000WO-US008439.
XX 17-MAY-2000; 2000WO-US013705.
XX 22-MAY-2000; 2000WO-US014042.
XX 30-MAY-2000; 2000WO-US014941.
XX 02-JUN-2000; 2000WO-US015264.
XX 05-JUN-2000; 2000US-0209832P.
XX 28-JUL-2000; 2000WO-US020710.
XX 11-AUG-2000; 2000WO-US022031.
XX 23-AUG-2000; 2000WO-US023522.
XX 24-AUG-2000; 2000WO-US023328.
XX 08-NOV-2000; 2000WO-US030952.
XX 10-NOV-2000; 2000WO-US030873.
XX
XX (GETH) GENENTECH INC.
XX
XX Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX
XX WPI: 2001-408281/43.
XX P-PSDB: AAU12364.
XX
XX Isolated , secretory and transmembrane PRO polypeptide used to detect
PT other PRO polypeptides, link bioactive molecules to cells expressing PRO

polypeptides, and detect the presence of mammalian tumors e.g. lung,
breast, prostate, cervical.
Claim 3; Fig 385; 813pp; English.
AAS21244-AAS21518 encode for novel human secretory and transmembrane PRO
polypeptides. The PRO polypeptides are useful to detect other PRO
polypeptides, to link bioactive molecules to cells expressing PRO
polypeptides, to modulate biological activities of cells expressing PRO
polypeptides, and to detect the presence of mammalian lung, colon,
breast, prostate, rectal, cervical or liver tumours by comparing PRO
polypeptide expression in a cell sample to that in a control sample. Some
of the 275 sequences are also useful to stimulate the release of tumour
necrosis factor-alpha (TNF-alpha) from human blood, the proliferation or
differentiation of chondrocytes, the proliferation or gene expression in
pericyte cells, the release of proteoglycans from cartilage, the
proliferation of inner ear uricular supporting cells or of T-
lymphocytes, the release of a cytokine from peripheral blood monocytes
(PBMCs), or the proliferation of endothelial cells. Some of the PRO
polypeptides may modulate glucose or free fatty acid uptake by skeletal
muscle cells or by adipocytes; or inhibit binding of A-peptide to factor
VIIA. The PRO polypeptides can be used in assays to identify molecules
involved in binding interactions. The polynucleotides encoding PRO
polypeptides can be used to generate probes, antisense RNA/DNA,
transgenic or knock out animals and can be used in gene therapy;
SQ Sequence 2749 BP; 599 A; 811 C; 698 G; 639 T; 0 U; 2 Other;
Query Match 99.9%; Score 2747; DB 4; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 CTCCACGGTGTCCAGCGCCAGAAATCGGGCTTCTGGTCTCTGCTATGGGGTGGCTGCTG 60
Db 1 CTCCACGGTGTCCAGCGCCAGAAATCGGGCTTCTGGTCTCTGCTATGGGGTGGCTGCTG 60
Qy 61 CTCCACGGTGTATGAAGCCCTTGGAGGGCCCGAGAGAAATCAGCGGTTTCGAGGGGACACT 120
Db 61 CTCCACGGTGTATGAAGCCCTTGGAGGGCCCGAGAGAAATCAGCGGTTTCGAGGGGACACT 120
Qy 121 GTGTCCCTGCGTGCACCTACAGGAGAGCTGAGGGACCCAGGACCATCGGAGTACTGTCAGG 180
Db 121 GTGTCCCTGCGTGCACCTACAGGAGAGCTGAGGGACCCAGGACCATCGGAGTACTGTCAGG 180
Qy 181 AAGGGTGGATCTCTTCTCTCTGCTGCTGCGACCATCTATGACAGAGAGAGAGGCGCAG 240
Db 181 AAGGGTGGATCTCTTCTCTCTGCTGCTGCGACCATCTATGACAGAGAGAGAGGCGCAG 240
Qy 241 GAGACATGAAGGCGAGGGTGTCCATCCGTGACAGCGCCAGGAGCTCTCGCTCATTTGTG 300
Db 241 GAGACATGAAGGCGAGGGTGTCCATCCGTGACAGCGCCAGGAGCTCTCGCTCATTTGTG 300
Qy 301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGAGTACTGTTGTGGGTTCGAAAAACGG 360
Db 301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGAGTACTGTTGTGGGTTCGAAAAACGG 360
Qy 361 GGCCCGATGAGTCTTTTACTGATCTCTGTTGTGTTTCCAGGACCTCTGCTCTCTCC 420
Db 361 GGCCCGATGAGTCTTTTACTGATCTCTGTTGTGTTTCCAGGACCTCTGCTCTCTCC 420
Qy 421 TCCCTTTCTCCACCTTCCAGCCTCTGGCTACACACGCTGACGCCCAAGGCAAAAGCT 480
Db 421 TCCCTTTCTCCACCTTCCAGCCTCTGGCTACACACGCTGACGCCCAAGGCAAAAGCT 480
Qy 481 CAGCAAAACCCAGCCCCCAGGATTGACTTCTCTGGGCTCTACCCGGGAGCCACACAGCC 540
Db 481 CAGCAAAACCCAGCCCCCAGGATTGACTTCTCTGGGCTCTACCCGGGAGCCACACAGCC 540
Qy 541 AAGCAGGGGAGACAGGGGCTGAGGCCCTCCATTGCGCAGGACTTCCAGTACGGGCAC 600
Db 541 AAGCAGGGGAGACAGGGGCTGAGGCCCTCCATTGCGCAGGACTTCCAGTACGGGCAC 600
Qy 601 GAAAGGACTTCTCAGTACACAGGAACCTCTCTCACCAGCAGCCTCTCTCTCTCTCTGCGAGG 660

ID AAF44269 standard; cDNA; 2749 BP.
XX AC AAF44269;
DT 02-APR-2001 (first entry)
XX Human PR0846 nucleotide sequence SEQ ID NO:516.
DE Human; secreted and transmembrane protein; PRO; cytostatic; cell death;
KW cancer; chromosomal mapping; gene mapping; tissue typing;
XX diagnostic assay; ss.
XX OS Homo sapiens.
XX PN WO200073454-A1.
XX PD 07-DEC-2000.
XX PF 30-MAR-2000; 2000WO-US0008439.
XX PR 02-JUN-1999; 99WO-US012252.
PR 23-JUN-1999; 99US-0141037P.
PR 07-JUL-1999; 99US-0143048P.
PR 20-JUL-1999; 99US-0144758P.
PR 28-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.
PR 17-AUG-1999; 99US-0149396P.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 08-OCT-1999; 99US-0158663P.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 05-JAN-2000; 2000WO-US000219.
PR 05-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
XX PA (GETH) GENENTECH INC.
XX PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi CJ, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
PI Zhang Z;
XX WPI; 2001-032160/04.
DR P-PSDB; AAB65300.
XX PRO polynucleotides used to produce polypeptides used to target bioactive
PT molecules such as toxins, radiolabels or antibodies, to specific cells,
PT to cause targeted cell death.
XX Claim 2; Fig 329; 935pp; English.
XX The present invention describes human secreted and transmembrane PRO
CC proteins. The PRO proteins have cytostatic activity. The PRO proteins can
CC be used for targeted delivery of bioactive molecules, such as toxins,
CC radiolabels or antibodies, that cause cell death. PRO nucleotide
CC sequences, and their fragments, can be used as hybridisation probes, in
CC chromosomal and gene mapping, and in the generation of anti-sense RNA and
CC DNA. They may also be used to produce transgenic animals which are used
CC to develop and screen therapeutically useful reagents. The PRO nucleotide
CC and protein sequence can be used for tissue typing and in treating
CC cancer. Anti-PRO antibodies can be used in diagnostic assays. AAF44270 to
CC AAF44470 represent PCR primers and hybridisation probes used in the

CC isolation of human PRO sequences. AAF44087 to AAF44269 and AAB65154 to
CC AAB65300 represent human PRO polynucleotide and protein sequences given
CC in the exemplification of the present invention
XX
SQ Sequence 2749 BP; 599 A; 811 C; 698 G; 639 T; 0 U; 2 Other;
Query Match 99.9%; Score 2747; DB 5; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CTCACGGGTGTCAGCGCCAGAGTGGCGCTTCTGGTCTCTGCTATGCGGGTTGCTGCTG 60
DB 1 CTCACGGGTGTCAGCGCCAGAGTGGCGCTTCTGGTCTCTGCTATGCGGGTTGCTGCTG 60
QY 61 CTCACGGTTATGAAGCCCTGAGGGCCAGAGGAAATCAGCGGGTTGCGAGGGGACACT 120
DB 61 CTCACGGTTATGAAGCCCTGAGGGCCAGAGGAAATCAGCGGGTTGCGAGGGGACACT 120
QY 121 GTGTCTGCGAGTGCACCTACAGGGAAGAGCTGAGGGACACCGGAAGTACTGTGCGAGG 180
DB 121 GTGTCTGCGAGTGCACCTACAGGGAAGAGCTGAGGGACACCGGAAGTACTGTGCGAGG 180
QY 181 AAGGGTGGGATCTCTTCTCTCTGCTCTGGCACCACATCTATGCAGAGAAGAAAGGCGAG 240
DB 181 AAGGGTGGGATCTCTTCTCTCTGCTCTGGCACCACATCTATGCAGAGAAGAAAGGCGAG 240
QY 241 GAGACAAATGAAGGGCGAGGGTGTCCATCCGTGACAGCGCCGAGGAGCTCTCGTCAATTGTG 300
DB 241 GAGACAAATGAAGGGCGAGGGTGTCCATCCGTGACAGCGCCGAGGAGCTCTCGTCAATTGTG 300
QY 301 ACCCTGTGGAACTCTCACTCTGCAAGAGCTGCGGAGGACTGTGGTGTGGGGTTCGAAAAACGG 360
DB 301 ACCCTGTGGAACTCTCACTCTGCAAGAGCTGCGGAGGACTGTGGTGTGGGGTTCGAAAAACGG 360
QY 361 GGGCCGATGAGTCTTTACTGATCTCTGTTGTTTCCAGGACCTCTGCTCTCTCCC 420
DB 361 GGGCCGATGAGTCTTTACTGATCTCTGTTGTTTCCAGGACCTCTGCTCTCTCCC 420
QY 421 TCCCTCTTCTCCACCTTCCAGCCTCTGGCTTACAAACAGCCTGAGCGCCCAAGAGCAAAAGCT 480
DB 421 TCCCTCTTCTCCACCTTCCAGCCTCTGGCTTACAAACAGCCTGAGCGCCCAAGAGCAAAAGCT 480
QY 481 CAGCAAAACCCAGCCCCCAGGATTTGACTTCTCTGGGCTCTACCCGGCAGCCACCAAGCC 540
DB 481 CAGCAAAACCCAGCCCCCAGGATTTGACTTCTCTGGGCTCTACCCGGCAGCCACCAAGCC 540
QY 541 AAGCAGGGGAAGACAGGGGCTGAGGGCCCTCCATTCGAGGGGACTTCCAGTAGTGGGCGAC 600
DB 541 AAGCAGGGGAAGACAGGGGCTGAGGGCCCTCCATTCGAGGGGACTTCCAGTAGTGGGCGAC 600
QY 601 GAAAGGACTTCTCAGTACACAGGAACTCTCTCACCAGCAGCAGCTCTCTCTCTGCGAGGG 660
DB 601 GAAAGGACTTCTCAGTACACAGGAACTCTCTCACCAGCAGCAGCTCTCTCTCTGCGAGGG 660
QY 661 AGCTCCGGCCCCCATGAGCTGGACTTCCCTCACCAGCAGCAGCTCTCTCTCTGCGAGCTC 720
DB 661 AGCTCCGGCCCCCATGAGCTGGACTTCCCTCACCAGCAGCAGCTCTCTCTCTGCGAGCTC 720
QY 721 AGCAGTGGCAGCTCTAAGCCAGGGTGTCCATCCGATGGTCCGATACCTGCGCCAGTGC 780
DB 721 AGCAGTGGCAGCTCTAAGCCAGGGTGTCCATCCGATGGTCCGATACCTGCGCCAGTGC 780
QY 781 CTGGTGTCTGTAGCCCTTCTGTGAGCGGAGGCTGTATCGCCCTTCTGAGCCACTGCTC 840
DB 781 CTGGTGTCTGTAGCCCTTCTGTGAGCGGAGGCTGTATCGCCCTTCTGAGCCACTGCTC 840
QY 841 CTGTGAGAAAGGAAGCTCAACAGGCGACAGAGACACAGAGGAACGAGAAAGTTCTGCTC 900
DB 841 CTGTGAGAAAGGAAGCTCAACAGGCGACAGAGGAACGAGAAAGTTCTGCTC 900
QY 901 TCAGGCTGTAGCTCGGAGGAAAGAGCCCTTCCAGGCGCCCTGAGGGGAGCTGATC 960
DB 901 TCAGGCTGTAGCTCGGAGGAAAGAGCCCTTCCAGGCGCCCTGAGGGGAGCTGATC 960

QY 961 TCGATGCTCCCTCCACACATCTGAGGAGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
Db 961 TCGATGCTCCCTCCACACATCTGAGGAGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
QY 1021 TAGGGCAGGAGGCGCTCCTGGCCAGGCGCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080
Db 1021 TAGGGCAGGAGGCGCTCCTGGCCAGGCGCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080
QY 1081 ACCGATTCGGAAAGCTTTCCACCTCAGCCTCAGAGTCCAGTCCCGGAGCTCAGGGCT 1140
Db 1081 ACCGATTCGGAAAGCTTTCCACCTCAGCCTCAGAGTCCAGTCCCGGAGCTCAGGGCT 1140
QY 1141 CTCCCAACCTCCCGAGGCTCTCTCTGATGTTCCAGCCTCAGCCTTAGAAGGCTTTGTC 1200
Db 1141 CTCCCAACCTCCCGAGGCTCTCTCTGATGTTCCAGCCTCAGCCTTAGAAGGCTTTGTC 1200
QY 1201 AGCCCTGGAGCCAGAGCGGTGGCTTTGCTCTTCGGCTGGAGACTGGGACATCCCTGAT 1260
Db 1201 AGCCCTGGAGCCAGAGCGGTGGCTTTGCTCTTCGGCTGGAGACTGGGACATCCCTGAT 1260
QY 1261 AGTTTACATCCTGGGCGAGGTACAGGCTGCTGACCCCTCAGGAGGCCAGACAGGCT 1320
Db 1261 AGTTTACATCCTGGGCGAGGTACAGGCTGCTGACCCCTCAGGAGGCCAGACAGGCT 1320
QY 1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAATCTCTGGGCTCCTATGCCAGTGTG 1380
Db 1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAATCTCTGGGCTCCTATGCCAGTGTG 1380
QY 1381 GACCTGCTCTCCTCCACATCCAGACCCCACTTGTCTTCCCTCCCTGGGCTCCTCAGAC 1440
Db 1381 GACCTGCTCTCCTCCACATCCAGACCCCACTTGTCTTCCCTCCCTGGGCTCCTCAGAC 1440
QY 1441 TTAGTCCAGCGTCTCTGATCAGCTGAGTGTGATGAGAGAGCATGCTGGGGTGAGACTG 1500
Db 1441 TTAGTCCAGCGTCTCTGATCAGCTGAGTGTGATGAGAGAGCATGCTGGGGTGAGACTG 1500
QY 1501 GGATTCGGCTCTCTTTGAACACCTCGATCCAGCCCTTCAGGAAGCCTGTGAAAACG 1560
Db 1501 GGATTCGGCTCTCTTTGAACACCTCGATCCAGCCCTTCAGGAAGCCTGTGAAAACG 1560
QY 1561 TGATTCCTGGCCCCACCAAGACCCACCAAAACCATCTCTGGGCTTGGTGAGGACTCTGA 1620
Db 1561 TGATTCCTGGCCCCACCAAGACCCACCAAAACCATCTCTGGGCTTGGTGAGGACTCTGA 1620
QY 1621 ATTCTAAATGCCCAGTGAATGTGCACTTGAGTTGAGGCGCAGTGGGCTGTGTAAC 1680
Db 1621 ATTCTAAATGCCCAGTGAATGTGCACTTGAGTTTGAAGGCGCAGTGGGCTGTGTAAC 1680
QY 1681 GCTCACACCCCTTCAGCTTAGAGTCTGCAATTTGGGCTGTGACGTCTCCACCTGCCCAAT 1740
Db 1681 GCTCACACCCCTTCAGCTTAGAGTCTGCAATTTGGGCTGTGACGTCTCCACCTGCCCAAT 1740
QY 1741 AGATCTGCTCTGTGTGGACACAGATFCCAGTGGGACTCCCTCAGGCTCTGTAAGTC 1800
Db 1741 AGATCTGCTCTGTGTGGACACAGATFCCAGTGGGACTCCCTCAGGCTCTGTAAGTC 1800
QY 1801 CAGGCTTGTGTGAGTGCACATTTGAGGATAGCCAGGACCCGACAGAGAGTGG 1860
Db 1801 CAGGCTTGTGTGAGTGCACATTTGAGGATAGCCAGGACCCGACAGAGAGTGG 1860
QY 1861 TTGCTTTTNCATTTGGCTCCTCGTGGNCCATGCTTCTGCTTTTGGAAAAATGATGAA 1920
Db 1861 TTGCTTTTNCATTTGGCTCCTCGTGGNCCATGCTTCTGCTTTTGGAAAAATGATGAA 1920
QY 1921 GAAAAACCTTGGCTCCTTCTGTGTGGAAGGGTTACTTGCCTATGGGTTCTGGTGCTA 1980
Db 1921 GAAAAACCTTGGCTCCTTCTGTGTGGAAGGGTTACTTGCCTATGGGTTCTGGTGCTA 1980
QY 1981 GAGAGAAAGTAGAAAACCAAGTAGTGCAGTGTGCTTAACACAGGAGAGTAGGACA 2040
Db 1981 GAGAGAAAGTAGAAAACCAAGTAGTGCAGTGTGCTTAACACAGGAGAGTAGGACA 2040

QY 2041 GGGCGGANTACTCGAAGGTGACTCCGAGTCCAGCCCCCTCGAGAGGGGTCTGGGGTGGTG 2100
Db 2041 GGGCGGANTACTCGAAGGTGACTCCGAGTCCAGCCCCCTCGAGAGGGGTCTGGGGTGGTG 2100
QY 2101 GTAAAGTAGCAACACTACTATTTTCTTTTCTTTTCCATTATTTATTTGTTTTTAAGACAGA 2160
Db 2101 GTAAAGTAGCAACACTACTATTTTCTTTTCTTTTCCATTATTTATTTGTTTTTAAGACAGA 2160
QY 2161 ATCTCGTGTGCTGCCAGGCTGGAGTGCAGTGGCAGCATCTGCAACTCCGCTCCTGG 2220
Db 2161 ATCTCGTGTGCTGCCAGGCTGGAGTGCAGTGGCAGCATCTGCAACTCCGCTCCTGG 2220
QY 2221 GTTCAAGTGAATCTCTGCTCAGCCTCCGAGTAGCTGGGATTCAGGACGCAACACC 2280
Db 2221 GTTCAAGTGAATCTCTGCTCAGCCTCCGAGTAGCTGGGATTCAGGACGCAACACC 2280
QY 2281 ACACTGGCTTAATTTTGTACTTTAGTAGAGATGGGGTTTCCACATGTTGGCCAGGCTG 2340
Db 2281 ACACTGGCTTAATTTTGTACTTTAGTAGAGATGGGGTTTCCACATGTTGGCCAGGCTG 2340
QY 2341 GTCTTGAACCTCTGAGCTCAAAATGAGCCTCCTGCTCAGTCTCCCAAATTTGCCGGGATTA 2400
Db 2341 GTCTTGAACCTCTGAGCTCAAAATGAGCCTCCTGCTCAGTCTCCCAAATTTGCCGGGATTA 2400
QY 2401 CAGGCTAGGCCACTGCTGTCTGGCCCTATTTTCTTTAAAGTGAATTAAGAGTTGTTTC 2460
Db 2401 CAGGCTAGGCCACTGCTGTCTGGCCCTATTTTCTTTAAAGTGAATTAAGAGTTGTTTC 2460
QY 2461 AGTATGCAAACTTTGAAAGATGGAGGAGAAAGAAAGAAAGAAAGAAAGAAATGTCAACCA 2520
Db 2461 AGTATGCAAACTTTGAAAGATGGAGGAGAAAGAAAGAAAGAAAGAAAGAAATGTCAACCA 2520
QY 2521 TAGCTCACAGAGACTATCATTTTCTGTTTGTGTTGTTGTTGTTGTTGTTGTTGTTTTC 2580
Db 2521 TAGCTCACAGAGACTATCATTTTCTGTTTGTGTTGTTGTTGTTGTTGTTGTTTTC 2580
QY 2581 TTCAATAATTTTCCCGTGTGTTTCTTTTACAGAGCAATTAATCTGTATATACAATTTGTA 2640
Db 2581 TTCAATAATTTTCCCGTGTGTTTCTTTTACAGAGCAATTAATCTGTATATACAATTTGTA 2640
QY 2641 TCTGCTTTTCCACCTTATGCTTCATCATCTTTTATTCAGCACTTCTCTGTGTTTACA 2700
Db 2641 TCTGCTTTTCCACCTTATGCTTCATCATCTTTTATTCAGCACTTCTCTGTGTTTACA 2700
QY 2701 GACCTTTTATAAATAAATGTTTCATCAGCTGCATAAAAAA 2749
Db 2701 GACCTTTTATAAATAAATGTTTCATCAGCTGCATAAAAAA 2749

RESULT 6
ABL88101
ID ABL88101 standard; cDNA; 2749 BP.
XX ABL88101;
AC AC
XX XX
DT 16-MAY-2002 (first entry)
XX
DE Human PRO846 cDNA sequence SEQ ID NO:59.
XX
KW Human; angiogenesis; cardiac; cytostatic; antiangiogenic; hypotensive;
KW vulnery; antiarteriosclerotic; PRO agonist; PRO antagonist; trauma;
KW gene therapy; cardiovascular disorder; endothelial disorder; cancer;
KW angiogenic disorder; cardiac hypertrophy; atherosclerosis; hypertension;
KW age-related macular degeneration; arterial restenosis; angina;
KW rheumatoid arthritis; myocardial infarction; thrombophlebitis;
KW lymphangitis; tumour angiogenesis; breast carcinoma; liver carcinoma;
KW wound healing; chromosome mapping; gene mapping; gene; ss.
OS Homo sapiens.
XX
FN W020020690-A2.
XX
PD 03-JAN-2002.

1081 ACCGATTCCCGAAGCTTTTCCACCTCAGCCTCAGAGTCCAGCTGCCGAGCTCCAGGGCT 1140
1081 ACCGATTCCCGAAGCTTTTCCACCTCAGCCTCAGAGTCCAGCTGCCGAGCTCCAGGGCT 1140
1141 CTCGCCACCTCCCGAGGCTCTCCTCTGTGATGTTCCAGCCTGACCTAGAGGCTTTGTC 1200
1141 CTCGCCACCTCCCGAGGCTCTCCTCTGTGATGTTCCAGCCTGACCTAGAGGCTTTGTC 1200
1201 AGCCCTGGAGCCACAGAGCGGTGGCTTGTCTTCCGCTGGAGACTGGGACATCCCTGAT 1260
1201 AGCCCTGGAGCCACAGAGCGGTGGCTTGTCTTCCGCTGGAGACTGGGACATCCCTGAT 1260
1261 AGGTTTCACTCCTCGGCGAGTACCAAGCTGTGACCTCAGCAGGCGCCAGACAGAGCT 1320
1261 AGGTTTCACTCCTCGGCGAGTACCAAGCTGTGACCTCAGCAGGCGCCAGACAGAGCT 1320
1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAATCTCCTGGGCTCATGCCAGTGTG 1380
1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAATCTCCTGGGCTCATGCCAGTGTG 1380
1381 GACCTGCTTCTCCTCCACTCCAGACCCCACTTGTCTTCCCTCCCTGGGCTCCTCAGAC 1440
1381 GACCTGCTTCTCCTCCACTCCAGACCCCACTTGTCTTCCCTCCCTGGGCTCCTCAGAC 1440
1441 TTAGTCCACGGTCTCCTGATCAGCTGTGTGATGAAGAGGAGCATGCTGGGGTGAGACTG 1500
1441 TTAGTCCACGGTCTCCTGATCAGCTGTGTGATGAAGAGGAGCATGCTGGGGTGAGACTG 1500
1501 GGAATCTGGCTTCTCTTTGAACCACTGCAATCCAGGCCCTTCCAGGAGCTGTGAAAACG 1560
1501 GGAATCTGGCTTCTCTTTGAACCACTGCAATCCAGGCCCTTCCAGGAGCTGTGAAAACG 1560
1561 TGATTCCTGCGCCCAACAGACCCCAACCAATCTCTGGGCTTGGTGAGGACTCTGA 1620
1561 TGATTCCTGCGCCCAACAGACCCCAACCAATCTCTGGGCTTGGTGAGGACTCTGA 1620
1621 ATTCTAACAAATGCCAGTACTGTGCACTTGTAGTTTGGGGCCAGTGGGCTGTGTAAC 1680
1621 ATTCTAACAAATGCCAGTACTGTGCACTTGTAGTTTGGGGCCAGTGGGCTGTGTAAC 1680
1681 GCTCACACCCCTTCCAGCTTAGAGTCTGCAATTTGGGCTGTGACGCTCTCACCTGCCCAAT 1740
1681 GCTCACACCCCTTCCAGCTTAGAGTCTGCAATTTGGGCTGTGACGCTCTCACCTGCCCAAT 1740
1741 AGATCTGCTCTGTCTGGACACACAGATCCAGTGGGACTCCCTGAGGCTCTGTAAGTC 1800
1741 AGATCTGCTCTGTCTGGACACACAGATCCAGTGGGACTCCCTGAGGCTCTGTAAGTC 1800
1801 CAGGCTTGGTTCAGGTCAGATGACATTCAGGATAGCCAGGACCGGACAGAGTGG 1860
1801 CAGGCTTGGTTCAGGTCAGATGACATTCAGGATAGCCAGGACCGGACAGAGTGG 1860
1861 TTGCTTTTNCATTTGCTTCCCTCGGNCATGCTCTTGGCTTTGGAAAAATGATGAA 1920
1861 TTGCTTTTNCATTTGCTTCCCTCGGNCATGCTCTTGGCTTTGGAAAAATGATGAA 1920
1921 GAAAACTTGGCTCTTCTTGTGTGAAAGGGTTACTTGGCTTATGGGTTCTGGTGCTA 1980
1921 GAAAACTTGGCTCTTCTTGTGTGAAAGGGTTACTTGGCTTATGGGTTCTGGTGCTA 1980
1981 GAGAGAAAGTAGAAAAACAGAGTGACGTAGGTGTCTAACACAGAGGAGTAGGAACA 2040
1981 GAGAGAAAGTAGAAAAACAGAGTGACGTAGGTGTCTAACACAGAGGAGTAGGAACA 2040
2041 GGGCGGATACCTGAAGGTGACTCCAGTCCAGGCTCCAGGCTCCAGGCTCCAGGCTCCAGG 2100
2041 GGGCGGATACCTGAAGGTGACTCCAGTCCAGGCTCCAGGCTCCAGGCTCCAGGCTCCAGG 2100
2101 GTAAAGTAGACAACACTATTTTTTTTCTTTTCCATTATTTATTTTAAAGACAGA 2160
2101 GTAAAGTAGACAACACTATTTTTTTTCTTTTCCATTATTTATTTTAAAGACAGA 2160

QY 2161 ATCTCGTGTCTGCTGCCAGCTGGAGTGCAGTGGCAGATCTGCAAACTCCGCTCCTGG 2220
Db 2161 ATCTCGTGTCTGCTGCCAGCTGGAGTGCAGTGGCAGATCTGCAAACTCCGCTCCTGG 2220
QY 2221 GTTCAAGTGAATTTCTTCTGCTCAGCCTCCGAGTAGCTGGGATTACGGCAGCAGCACC 2280
Db 2221 GTTCAAGTGAATTTCTTCTGCTCAGCCTCCGAGTAGCTGGGATTACGGCAGCAGCACC 2280
QY 2281 ACACCTGGCTAATTTTGTACTTTTAGTAGAGATGGGTTTACCATGTTGGCCAGGCTG 2340
Db 2281 ACACCTGGCTAATTTTGTACTTTTAGTAGAGATGGGTTTACCATGTTGGCCAGGCTG 2340
QY 2341 GTCTTGAACCTCCTGACCTCAAAATGAGCTCCTGCTTTCAGTCTCCCAAAATGCGGGATTA 2400
Db 2341 GTCTTGAACCTCCTGACCTCAAAATGAGCTCCTGCTTTCAGTCTCCCAAAATGCGGGATTA 2400
QY 2401 CAGGCAATGAGCCTACTGTCTGCTGCTGCTTTCCTTTTAAAGTGAATTAAGAGTTGTTT 2460
Db 2401 CAGGCAATGAGCCTACTGTCTGCTGCTGCTTTCCTTTTAAAGTGAATTAAGAGTTGTTT 2460
QY 2461 AGTATGCAAACTTTGGAAGATGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2520
Db 2461 AGTATGCAAACTTTGGAAGATGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2520
QY 2521 TAGTCTCACCAGAGACTATCATTAATTTGTTTGTACTTCTTCCCTTCCACTCTTTTCTTC 2580
Db 2521 TAGTCTCACCAGAGACTATCATTAATTTGTTTGTACTTCTTCCCTTCCACTCTTTTCTTC 2580
QY 2581 TTCAATTAATTTCCCGTGTCTTTTACAGAGCAATATCTTGTATATATATATATATATATAT 2640
Db 2581 TTCAATTAATTTCCCGTGTCTTTTACAGAGCAATATCTTGTATATATATATATATATATAT 2640
QY 2641 TCCGCTCTTTTCCACCTTATCTTCCATCACTTTTATTTCCAGCACTTCTCTGTGTTTATACA 2700
Db 2641 TCCGCTCTTTTCCACCTTATCTTCCATCACTTTTATTTCCAGCACTTCTCTGTGTTTATACA 2700
QY 2701 GACCTTTTATATAATAAATGTTTCATCAGCTGCATATAAAAAAAAAAAAAA 2749
Db 2701 GACCTTTTATATAATAAATGTTTCATCAGCTGCATATAAAAAAAAAAAAAA 2749

RESULT 7
ABL95590
ID ABL95590 standard; cdna; 2749 BP.
XX
AC ABL95590;
XX
XX
DT 19-JUL-2002 (first entry)
XX
DE Human angiogenesis related cdna PRO846 SEQ ID NO: 59.
XX
KW Human; angiogenesis; PRO protein; cardiovascularisation; wound; cancer;
KW atherosclerosis; cardiac hypertrophy; gene therapy; endothelial disorder;
KW cardiant; cytosatic; antiangiogenic; hypotensive; vulnery;
KW antiarteriosclerotic; gene; ss.
XX
OS Homo sapiens.
XX
PN WO200208284-A2.
XX
PD 31-JAN-2002.
XX
PP 09-JUL-2001; 2001WO-US021735.
XX
PR 20-JUL-2000; 2000US-0219556P.
PR 25-JUL-2000; 2000US-0220624P.
PR 25-JUL-2000; 2000US-0220654P.
PR 28-JUL-2000; 2000WO-US020710.
PR 02-AUG-2000; 2000US-0222695P.
PR 17-AUG-2000; 2000US-00643657.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 07-SEP-2000; 2000US-0230978P.

PR 18-SEP-2000; 2000US-00664610.
PR 18-SEP-2000; 2000US-00665350.
PR 24-OCT-2000; 2000US-0242922P.
PR 08-NOV-2000; 2000US-00709238.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032878.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 22-JAN-2001; 2001US-00767609.
PR 28-FEB-2001; 2001US-00796498.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006566.
PR 09-MAR-2001; 2001US-00802706.
PR 14-MAR-2001; 2001US-00808689.
PR 22-MAR-2001; 2001US-00816744.
PR 05-APR-2001; 2001US-00828366.
PR 10-MAY-2001; 2001US-00854208.
PR 23-MAY-2001; 2001US-00866028.
PR 25-MAY-2001; 2001US-00866034.
PR 25-MAY-2001; 2001WO-US017092.
PR 30-MAY-2001; 2001US-00870574.
PR 30-MAY-2001; 2001WO-US017443.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
XX

(GETH) GENENTECH INC.

PA (BAKE/) BAKER K P.

PA (FERR/) FERRARA N.

PA (GERB/) GERBERTS H.

PA (GERR/) GERRITSEN M E.

PA (GODD/) GODDARD A.

PA (GODO/) GODOWSKI P J.

PA (GURN/) GURNEY A L.

PA (HILL/) HILLAN K J.

PA (MARS/) MARSTERS S A.

PA (PANJ/) PAN J.

PA (PAON/) PAONI N F.

PA (STEP/) STEPHAN J F.

PA (WATA/) WATANABE C K.

PA (WILL/) WILLIAMS P M.

PA (WOOD/) WOOD W I.

XX Baker KP, Ferrara N, Gerber H, Gerritsen ME, Goddard A;

PI Godowski PJ, Gurney AL, Hillan KJ, Marsters SA, Pan J, Paoni NF;

PI Stephan JF, Watanabe CK, Williams PM, Wood WI, Ye W;

XX WPI; 2002-171999/22.

DR P-PSDB; ABB95452.

XX One hundred and eighty seven nucleic acids encoding PRO polypeptides,
PT useful in diagnosis and treatment of cardiovascular (e.g. myocardial
PT infarction), endothelial or angiogenic disorders in a mammal.

XX Claim 1; Fig 59; 567pp; English.

XX The present invention provides the protein and coding sequences of human
CC PRO proteins. These are useful for treating or diagnosing a
CC cardiovascular, endothelial or angiogenic disorder, including cardiac
CC hypertrophy, trauma, cancer, age-related macular degeneration,
CC atherosclerosis, hypertension, arterial restenosis, rheumatoid arthritis,
CC angina, myocardial infarctions, thrombophlebitis, lymphangitis, tumour
CC angiogenesis (such as breast carcinoma and liver carcinoma) and wound
CC healing. The present sequence is a coding sequence of the invention
XX

SQ Sequence 2749 BP; 599 A; 811 C; 698 G; 639 T; 0 U; 2 Other;

Query Match 99.98; Score 2747; DB 6; Length 2749;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCCCACGGTGTCCAGGCGCCAGAAATCGCGTTCCTGGTCTGCTATGGGGTTGCTGCTG 60

Db 1 CTCCCACGGTGTCCAGGCGCCAGAAATCGCGTTCCTGGTCTGCTATGGGGTTGCTGCTG 60
QY 61 CTCCCAGGTTATGAAGCCCTGGAGGGCCAGAGAAATCAGCGGGTTCGAAGGGGACACT 120
Db 61 CTCCCAGGTTATGAAGCCCTGGAGGGCCAGAGAAATCAGCGGGTTCGAAGGGGACACT 120
QY 121 GTGTCCCTGCGAGTCACCTACAGGGAAGAGCTGAGGGAACCAACCGGAAGTACTGTGTGAGG 180
Db 121 GTGTCCCTGCGAGTCACCTACAGGGAAGAGCTGAGGGAACCAACCGGAAGTACTGTGTGAGG 180
QY 181 AAGGTTGGGATCCTCTCTCTCGCTGCTCTGGACCATCTATGCAGAGAGAGAGGCGAG 240
Db 181 AAGGTTGGGATCCTCTCTCTCGCTGCTCTGGACCATCTATGCAGAGAGAGAGGCGAG 240
QY 241 GAGACAAATGAAGGCGCAGGGTGTCCATCCGTGACAGCGCCGAGGAGCTCTCGCTCATTTGTG 300
Db 241 GAGACAAATGAAGGCGCAGGGTGTCCATCCGTGACAGCGCCGAGGAGCTCTCGCTCATTTGTG 300
QY 301 ACCCTGTGGAACTCTCAACCTGCAAGAGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
Db 301 ACCCTGTGGAACTCTCAACCTGCAAGAGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
QY 361 GGCCCGGATGAGTCTTTTACTGATCTCTCTGTTGCTTTTCCAGGACCTGCTGCTCTCCC 420
Db 361 GGCCCGGATGAGTCTTTTACTGATCTCTCTGTTGCTTTTCCAGGACCTGCTGCTCTCCC 420
QY 421 TCCCTTTCTCCACCTTTCAGGCTCTGGCTTACACAGCGCTGACGCCCAAGGCAAGGAAAAAGCT 480
Db 421 TCCCTTTCTCCACCTTTCAGGCTCTGGCTTACACAGCGCTGACGCCCAAGGCAAGGAAAAAGCT 480
QY 481 CAGCAAAACCCAGGCGCCCGAGGATTGACTTCTCTGGGCTCTACCCGGGAGGACACACAGGCC 540
Db 481 CAGCAAAACCCAGGCGCCCGAGGATTGACTTCTCTGGGCTCTACCCGGGAGGACACACAGGCC 540
QY 541 AAGCAGGGAAGACAGGGGCTGAGGCCCTCCATTTGCCAGGAGCTTCCAGTAGCGGGGAC 600
Db 541 AAGCAGGGAAGACAGGGGCTGAGGCCCTCCATTTGCCAGGAGCTTCCAGTAGCGGGGAC 600
QY 601 GAAAGGACTTCTCAGTACACAGGAACCTCTCTCACCCAGGACCTCTCTCTCTGCGAGGG 660
Db 601 GAAAGGACTTCTCAGTACACAGGAACCTCTCTCACCCAGGACCTCTCTCTCTGCGAGGG 660
QY 661 AGCTCCCGCCCGCCATGACAGCTGAGTCCACCTCAGCAGAGGACACACAGTCCAGCTCTC 720
Db 661 AGCTCCCGCCCGCCATGACAGCTGAGTCCACCTCAGCAGAGGACACACAGTCCAGCTCTC 720
QY 721 AGCAGTGGCAGCTCTAAGCCCAAGGGTGTCCATCCCGATGTTCCGATATCTGGCCCCAGTC 780
Db 721 AGCAGTGGCAGCTCTAAGCCCAAGGGTGTCCATCCCGATGTTCCGATATCTGGCCCCAGTC 780
QY 781 CTGGTGTGTGAGCCCTTCTGTCAGCGGCGAGGCTGATCCGCTTCTGACGCCACCTGCTC 840
Db 781 CTGGTGTGTGAGCCCTTCTGTCAGCGGCGAGGCTGATCCGCTTCTGACGCCACCTGCTC 840
QY 841 CTGTGGAGAAAGGAAGCTCAACAGGCGCACAGAGGAAACGAGAAAGTTCGTGCTC 900
Db 841 CTGTGGAGAAAGGAAGCTCAACAGGCGCACAGAGGAAACGAGAAAGTTCGTGCTC 900
QY 901 TCACGCTTGACTCGGAGGAAAAAGGAGCCCTTCCAGGCCCTTCGAGGGGAGCTGATC 960
Db 901 TCACGCTTGACTCGGAGGAAAAAGGAGCCCTTCCAGGCCCTTCGAGGGGAGCTGATC 960
QY 961 TCATGCTCTCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTGTCTCAGCG 1020
Db 961 TCATGCTCTCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTGTCTCAGCG 1020
QY 1021 TAGGCGAGGAGGCGCCCTCTCGGCCAGCGCAGCAGTGAAGAGTATGGTGTGCTGATCAGC 1080
Db 1021 TAGGCGAGGAGGCGCCCTCTCTGGCCAGCGCAGCAGTGAAGAGTATGGTGTGCTGATCAGC 1080
QY 1081 ACCGATTCCGGAAGGCTTTTCCACTCAGCTCAGAGTCCAGCTGCGCGGAGCTCCAGGGCT 1140

Db 1081 ACCGATTCGCGAAGCTTTCCACCTCAGCCTCAGAGTCCAGCTGCCCCGACTCCAGGGCT 1140
Qy 1141 CTCCCAACCTCCCGAGGCTCTCTCTTTGATGTTCCAGCCTGACCTTAGAAGCGTTTGTG 1200
Db 1141 CTCCCAACCTCCCGAGGCTCTCTCTTTGATGTTCCAGCCTGACCTTAGAAGCGTTTGTG 1200
Qy 1201 AGCCCTGGAGCCAGAGCGGTGGCTTTCTCTTCGCGCTGGAGACTGGGACATCCCTGAT 1260
Db 1201 AGCCCTGGAGCCAGAGCGGTGGCTTTCTCTTCGCGCTGGAGACTGGGACATCCCTGAT 1260
Qy 1261 AGGTTCACTCCTTGGGCGAGATACAGAGCTGCTGACCTCAGCAGGCGCAGACAGGCT 1320
Db 1261 AGGTTCACTCCTTGGGCGAGATACAGAGCTGCTGACCTCAGCAGGCGCAGACAGGCT 1320
Qy 1321 CAGTGGATCTGCTGAGTTTCAATCTGCCAGGAATCTCCTGGGCTCCTATGCCAGTGTG 1380
Db 1321 CAGTGGATCTGCTGAGTTTCAATCTGCCAGGAATCTCCTGGGCTCCTATGCCAGTGTG 1380
Qy 1381 GACCCTGCTTCTCCCACTCCAGACCCACCTTTGCTTCTCCCTCCCTGGGCTCCTCAGAC 1440
Db 1381 GACCCTGCTTCTCCCACTCCAGACCCACCTTTGCTTCTCCCTCCCTGGGCTCCTCAGAC 1440
Qy 1441 TTAGTCCAGCGTCTCTGATCAGCTGCTGATGAGAGAGAGCATGCTGGGGTGAGACTG 1500
Db 1441 TTAGTCCAGCGTCTCTGATCAGCTGCTGATGAGAGAGAGCATGCTGGGGTGAGACTG 1500
Qy 1501 GGATCTCGGCTCTCTTTGAACACCTGCATCCAGCCCTTCCAGAGCCCTTGGAANAACG 1560
Db 1501 GGATCTCGGCTCTCTTTGAACACCTGCATCCAGCCCTTCCAGAGCCCTTGGAANAACG 1560
Qy 1561 TGATCTCGGCTCTCTTTGAACACCTGCATCCAGCCCTTCCAGAGCCCTTGGAANAACG 1620
Db 1561 TGATCTCGGCTCTCTTTGAACACCTGCATCCAGCCCTTCCAGAGCCCTTGGAANAACG 1620
Qy 1621 ATTCTAACAATGCCAGTACTGTGCACTTGAGTTGAGGGCCAGTGGGCTGATGAAC 1680
Db 1621 ATTCTAACAATGCCAGTACTGTGCACTTGAGTTGAGGGCCAGTGGGCTGATGAAC 1680
Qy 1681 GCTCACACCTCTCAGCTTAGAGTCTGATTTGGGCTGTGACGCTCCACCTGCCCAAT 1740
Db 1681 GCTCACACCTCTCAGCTTAGAGTCTGATTTGGGCTGTGACGCTCTCCACCTGCCCAAT 1740
Qy 1741 AGATCTGCTCTGTGCGACACAGATCCAGTGGGACTCCCTTGAGGCTGCTGAAGTC 1800
Db 1741 AGATCTGCTCTGTGCGACACAGATCCAGTGGGACTCCCTTGAGGCTGCTGAAGTC 1800
Qy 1801 CAGGCTTGTGTCAGTGCATGTGAGGATAGCCAGTGGGACTCCCTTGAGGCTGCTGAAGTC 1860
Db 1801 CAGGCTTGTGTCAGTGCATGTGAGGATAGCCAGTGGGACTCCCTTGAGGCTGCTGAAGTC 1860
Qy 1861 TTGCTTTTNCATTTGCTTCCCTCCCTGGGCCATGCTTCTGCTTGGGAAATGATGAA 1920
Db 1861 TTGCTTTTNCATTTGCTTCCCTCCCTGGGCCATGCTTCTGCTTGGGAAATGATGAA 1920
Qy 1921 GAAAACTTGGCTCTCTTCTTGTGGAAGGGTTACTTGCCTATGCGTTCTGCTGCTA 1980
Db 1921 GAAAACTTGGCTCTCTTCTTGTGGAAGGGTTACTTGCCTATGCGTTCTGCTGCTA 1980
Qy 1981 GAGAGAAAGTAGAAAAACAGAGTGCACGTAGGTGTCTAACACAGAGGAGTAGGAACA 2040
Db 1981 GAGAGAAAGTAGAAAAACAGAGTGCACGTAGGTGTCTAACACAGAGGAGTAGGAACA 2040
Qy 2041 GGGCGGATCTGAGGTGACTCCGAGTCCAGCCCTGGAGAGGGGTGGGGGTGGTG 2100
Db 2041 GGGCGGATCTGAGGTGACTCCGAGTCCAGCCCTGGAGAGGGGTGGGGGTGGTG 2100
Qy 2101 GTAAAGTAGCACTACTATTTTTTTTCTTTTCCATTTATTTTAAAGACAGA 2160
Db 2101 GTAAAGTAGCACTACTATTTTTTTTCTTTTCCATTTATTTTAAAGACAGA 2160
Qy 2161 ATCTGCTGCTGCCCGCAGGCTGAGTGCAGTGCAGATCTGCAAACTCGGCTCTCTGG 2220
Db 2161 ATCTGCTGCTGCCCGCAGGCTGAGTGCAGTGCAGATCTGCAAACTCGGCTCTCTGG 2220

Qy 2221 GTTCAAGTGAATTTCTGCTCAGCCTCCGAGTAGCTGGGATTACAGGACGCAACACC 2280
Db 2221 GTTCAAGTGAATTTCTGCTCAGCCTCCGAGTAGCTGGGATTACAGGACGCAACACC 2280
Qy 2281 ACACCTGGCTAAATTTTGTACTTTTAGTAGAGATGGGGTTTACCATGTTGGCCAGGCTG 2340
Db 2281 ACACCTGGCTAAATTTTGTACTTTTAGTAGAGATGGGGTTTACCATGTTGGCCAGGCTG 2340
Qy 2341 GTCTTGAACCTCCAGCCTCAATGAGCCTCCTGCTCAGTCTCCCAAATTTGCCGGGATTA 2400
Db 2341 GTCTTGAACCTCCAGCCTCAATGAGCCTCCTGCTCAGTCTCCCAAATTTGCCGGGATTA 2400
Qy 2401 CAGGCAATGAGCCTGCTGCTGGCCCTATTTTCCCTTTAAAAAGTCAAAATTAAGAGTTGTTT 2460
Db 2401 CAGGCAATGAGCCTGCTGCTGGCCCTATTTTCCCTTTAAAAAGTCAAAATTAAGAGTTGTTT 2460
Qy 2461 AGTATGCAAACTTTGGAAGATGGAGGAGAAAAAGAAAGAAAGAAAAATGTCACCCA 2520
Db 2461 AGTATGCAAACTTTGGAAGATGGAGGAGAAAAAGAAAGAAAGAAAAATGTCACCCA 2520
Qy 2521 TAGTCTCACAGAGACTATCATTTATTTGCTTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 2580
Db 2521 TAGTCTCACAGAGACTATCATTTATTTGCTTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 2580
Qy 2581 TTCACTAATTTTCCCGTGTCTTTTACAGAGCAATTAATCTGTATATATACAACTTTGTA 2640
Db 2581 TTCACTAATTTTCCCGTGTCTTTTACAGAGCAATTAATCTGTATATATACAACTTTGTA 2640
Qy 2641 TCTGCTTTTCCACCTTATTCGTTTCATCATCTTTATTTCCAGCACTTCTCTGTGTTTACA 2700
Db 2641 TCTGCTTTTCCACCTTATTCGTTTCATCATCTTTATTTCCAGCACTTCTCTGTGTTTACA 2700
Qy 2701 GACCTTTTATAATAAATGTTTCATCAGCTGCATATAAAAAA 2749
Db 2701 GACCTTTTATAATAAATGTTTCATCAGCTGCATATAAAAAA 2749

RESULT 8
ABX78063
ID ABX78063 standard; cDNA; 2749 BP.
XX
XX ABX78063;
XX AC
XX XX
DT 14-APR-2003 (first entry)
XX
DE Human PRO polynucleotide #147.
XX
XX Human; PRO; gene; ss; cytostatic; tumour; cancer; breast; lung; stomach;
XX KW liver; horse; cow; dog; cat; sheep; pig; goat; rabbit; ADEPT;
XX KW antibody-dependent enzyme mediated produg therapy.
XX OS Homo sapiens.
XX
XX US2003027163-A1.
XX
XX 06-FEB-2003.
XX
XX 15-NOV-2001; 2001US-00997666.
XX
XX 16-JUN-1997; 97US-0049787P.
XX PR 17-OCT-1997; 97US-0062250P.
XX PR 05-NOV-1997; 97WO-US020069.
XX PR 12-NOV-1997; 97US-0065186P.
XX PR 13-NOV-1997; 97US-0065311P.
XX PR 24-NOV-1997; 97US-0066770P.
XX PR 25-FEB-1998; 98US-0075945P.
XX PR 20-MAR-1998; 98US-0078910P.
XX PR 28-APR-1998; 98US-0083322P.
XX PR 07-MAY-1998; 98US-0084600P.
XX PR 28-MAY-1998; 98US-0087106P.
XX PR 02-JUN-1998; 98US-0087607P.
XX PR 02-JUN-1998; 98US-0087609P.

PR 03-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088026P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088030P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088336P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 05-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088734P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088742P.
PR 10-JUN-1998; 98US-0088810P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088910P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089947P.
PR 19-JUN-1998; 98US-0089948P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 23-JUN-1998; 98US-0090349P.
PR 23-JUN-1998; 98US-0090355P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090431P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090445P.
PR 24-JUN-1998; 98US-0090472P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 24-JUN-1998; 98US-0090542P.
PR 24-JUN-1998; 98US-0090557P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 01-JUL-1998; 98US-0091360P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091519P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091633P.
PR 02-JUL-1998; 98US-0091646P.
PR 02-JUL-1998; 98US-0091673P.
PR 07-JUL-1998; 98US-0091978P.

PR 07-JUL-1998; 98US-0091982P.
PR 09-JUL-1998; 98US-0092182P.
PR 10-JUL-1998; 98US-0092472P.
PR 20-JUL-1998; 98US-0093339P.
PR 30-JUL-1998; 98US-0094651P.
PR 04-AUG-1998; 98US-0095282P.
PR 04-AUG-1998; 98US-0095285P.
PR 04-AUG-1998; 98US-0095301P.
PR 04-AUG-1998; 98US-0095318P.
PR 04-AUG-1998; 98US-0095318P.
PR 04-AUG-1998; 98US-0095321P.
PR 04-AUG-1998; 98US-0095325P.
PR 10-AUG-1998; 98US-0095916P.
PR 10-AUG-1998; 98US-0095929P.
PR 10-AUG-1998; 98US-0096012P.
PR 11-AUG-1998; 98US-0096143P.
PR 11-AUG-1998; 98US-0096146P.
PR 12-AUG-1998; 98US-0096329P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096768P.
PR 17-AUG-1998; 98US-0096773P.
PR 17-AUG-1998; 98US-0096791P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096894P.
PR 17-AUG-1998; 98US-0096895P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096950P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0096960P.
PR 18-AUG-1998; 98US-0097022P.
PR 19-AUG-1998; 98US-0097141P.
PR 20-AUG-1998; 98US-0097218P.
PR 24-AUG-1998; 98US-0097661P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0097978P.
PR 26-AUG-1998; 98US-0097979P.
PR 26-AUG-1998; 98US-0097986P.
PR 26-AUG-1998; 98US-0098014P.
PR 31-AUG-1998; 98US-0098525P.
PR 16-SEP-1998; 98US-0100634P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100858P.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 01-DEC-1998; 98WO-US025108.
PR 22-DEC-1998; 98US-011326P.
PR 03-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 12-MAR-1999; 99US-0123957P.
PR 02-JUN-1999; 99WO-US013252.
PR 23-JUN-1999; 99US-0141037P.
PR 07-JUL-1999; 99US-0143048P.
PR 20-JUL-1999; 99US-0144758P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.
PR 17-AUG-1999; 99US-0149396P.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 08-OCT-1999; 99US-0158663P.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.

PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 13-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 23-JUN-2000; 2000US-0213637P.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 07-SEP-2000; 2000US-0230978P.
Query Match 99.9%; Score 2747; DB 7; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 CTCCACGGTGTCCAGCGCCAGAAATCGCGCTTCTGGTCTGCTATGGGGTTCGCTGCTG 60
Db 1 CTCCACGGTGTCCAGCGCCAGAAATCGCGCTTCTGGTCTGCTATGGGGTTCGCTGCTG 60
Qy 61 CTCCACGGTATGAAGCCCTGGAGGCGCCAGAGAAATCAGCGGTTTCGAAGGGGACACT 120
Db 61 CTCCACGGTATGAAGCCCTGGAGGCGCCAGAGAAATCAGCGGTTTCGAAGGGGACACT 120
Qy 121 GTGTCCCTGCAGTGCACTACAGGAAAGAGCTGAGGACCAACCGGAAGTACTGGTGAGG 180
Db 121 GTGTCCCTGCAGTGCACTACAGGAAAGAGCTGAGGACCAACCGGAAGTACTGGTGAGG 180
Qy 181 AAGGGTGGGATCCTTCTCTCTCGTCTCTGGACCATCTATGCAGAAAGAGGCGCAG 240
Db 181 AAGGGTGGGATCCTTCTCTCTCGTCTCTGGACCATCTATGCAGAAAGAGGCGCAG 240
Qy 241 GAGCAATGAAGGCGAGGGTGTCCATCCGTGACAGCGCCAGGAGCTCTCGCTCATTTGTG 300
Db 241 GAGCAATGAAGGCGAGGGTGTCCATCCGTGACAGCGCCAGGAGCTCTCGCTCATTTGTG 300
Qy 301 ACCCTGTGAAACCTCACCCCTGCAAGACGCTGGGAGTACTGGTGTGGGGTTCGAAAACGG 360
Db 301 ACCCTGTGAAACCTCACCCCTGCAAGACGCTGGGAGTACTGGTGTGGGGTTCGAAAACGG 360
Qy 361 GGCCCGGATCAGTCTTTACTGATCTCTCTGTTCTTTCCAGGACCCCTGCTGCTCC 420
Db 361 GGCCCGGATCAGTCTTTACTGATCTCTCTGTTCTTTCCAGGACCCCTGCTGCTCC 420
Qy 421 TCCCTTTCTCCACCTTCCAGCCCTCTGGCTCAACACGCTCGAGCCCAAGGCAAAAGCT 480
Db 421 TCCCTTTCTCCACCTTCCAGCCCTCTGGCTCAACACGCTCGAGCCCAAGGCAAAAGCT 480
Qy 481 CAGAAACCCAGGCCCCAGAGTTGACTTCTCTGGGCTTACCCGGAGCCACACAGCC 540
Db 481 CAGAAACCCAGGCCCCAGAGTTGACTTCTCTGGGCTTACCCGGAGCCACACAGCC 540
Qy 541 AAGCAGGGGAGACAGGGGCTGAGGCCCTCCATTGCGAGGACTTCCAGTAGTACGGGCAC 600
Db 541 AAGCAGGGGAGACAGGGGCTGAGGGCTTCCATTGCGAGGACTTCCAGTAGTACGGGCAC 600
Qy 601 GAAAGGACTTCTCAGTACACAGGAACCTCTCTCACCAGCGACCTCTCTCTCTGCAAGG 660
Db 601 GAAAGGACTTCTCAGTACACAGGAACCTCTCTCACCAGCGACCTCTCTCTCTGCAAGG 660
Qy 661 AGCTCCCGCCCCCATGCGAGTGGACTCCACTCAGCAGAGGACACAGTCCAGTCTC 720
Db 661 AGCTCCCGCCCCCATGCGAGTGGACTCCACTCAGCAGAGGACACAGTCCAGTCTC 720

Qy 721 AGCAGTGGCAGCTCTAAGCCAGGGTGTCCATCCGATGGTCCGATACTGCGCCCAAGTC 780
Db 721 AGCAGTGGCAGCTCTAAGCCAGGGTGTCCATCCGATGGTCCGATACTGCGCCCAAGTC 780
Qy 781 CTGGTGTCTGTAGACCTTCTGTGAGCCGAGGCTGTGATCCCTTCTGACGCCACCTGCTC 840
Db 781 CTGGTGTCTGTAGACCTTCTGTGAGCCGAGGCTGTGATCCCTTCTGACGCCACCTGCTC 840
Qy 841 CTGTGAGAAAGAAAGCTCAACAGGCCACGGAGACACAGAGAAACGAGAAAGTCTGCGTC 900
Db 841 CTGTGAGAAAGAAAGCTCAACAGGCCACGGAGACACAGAGAAACGAGAAAGTCTGCGTC 900
Qy 901 TCACGCTTGACTGCGGAGGAAAGAACCCCTTCCAGGCCCTTGAAGGGGAGCTGATC 960
Db 901 TCACGCTTGACTGCGGAGGAAAGAACCCCTTCCAGGCCCTTGAAGGGGAGCTGATC 960
Qy 961 TCGATGCTCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
Db 961 TCGATGCTCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
Qy 1021 TAGGSCAGGAGGCCCTCTCGCCAGGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080
Db 1021 TAGGSCAGGAGGCCCTCTCGCCAGGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080
Qy 1081 ACCGATTTCCGAAAGCTTTCCACTCAGCCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT 1140
Db 1081 ACCGATTTCCGAAAGCTTTCCACTCAGCCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT 1140
Qy 1141 CTCCCAACCTTCCCGAGGCTCTCTCTTGTGATTTCCAGCTGACCTTAGAAGGCTTTGTC 1200
Db 1141 CTCCCAACCTTCCCGAGGCTCTCTCTTGTGATTTCCAGCTGACCTTAGAAGGCTTTGTC 1200
Qy 1201 AGCCCTGGAGCCACAGAGCGGTGCTTCTTCCGGCTGGAGCTGGGACATCCCTGAT 1260
Db 1201 AGCCCTGGAGCCACAGAGCGGTGCTTCTTCCGGCTGGAGCTGGGACATCCCTGAT 1260
Qy 1261 AGGTTTCACTTCCCTGGCGAGAGTACAGAGCTGTGACCCCTCAGCAGGGCCAGACAAGGCT 1320
Db 1261 AGGTTTCACTTCCCTGGCGAGAGTACAGAGCTGTGACCCCTCAGCAGGGCCAGACAAGGCT 1320
Qy 1321 CAGTGAATCTGTGTGAGTTTCAATCTGCGAGAACTCTCTGGGCTCTATGCCAGTGTG 1380
Db 1321 CAGTGAATCTGTGTGAGTTTCAATCTGCGAGAACTCTCTGGGCTCTATGCCAGTGTG 1380
Qy 1381 GACCTGCTTCTTCCACTCCAGACCCCACTTCTTCCCTCCCTGGGCTCTCAGAC 1440
Db 1381 GACCTGCTTCTTCCACTCCAGACCCCACTTCTTCCCTCCCTGGGCTCTCAGAC 1440
Qy 1441 TTAGTCCACGCTCTCTGCTCAGCTGAGTGAAGAGAGGAGCATGCTGGGGTGAGACTG 1500
Db 1441 TTAGTCCACGCTCTCTGCTCAGCTGAGTGAAGAGAGGAGCATGCTGGGGTGAGACTG 1500
Qy 1501 GGATTTGGTCTCTTTTGAACCACTGATCCAGGCCCTTCAGGAAGCCCTGTGAAAACG 1560
Db 1501 GGATTTGGTCTCTTTTGAACCACTGATCCAGGCCCTTCAGGAAGCCCTGTGAAAACG 1560
Qy 1561 TGATTTCTGGCCCCCAGAGCCACCAACCACTCTCTGGGCTTGTGTGAGGACTCTGA 1620
Db 1561 TGATTTCTGGCCCCCAGAGCCACCAACCACTCTCTGGGCTTGTGTGAGGACTCTGA 1620
Qy 1621 ATTCTAACATGCCCCAGTGTCTGCTGCACTTTGAGTTTGAAGGGCCAGTGGGCTGATGAAC 1680
Db 1621 ATTCTAACATGCCCCAGTGTCTGCTGCACTTTGAGTTTGAAGGGCCAGTGGGCTGATGAAC 1680
Qy 1681 GCTCACACCCCTTTCAGCTTAGAGTGTGCAATTTGGGCTGTGACGCTCTCCACCTGCCCCAAT 1740
Db 1681 GCTCACACCCCTTTCAGCTTAGAGTGTGCAATTTGGGCTGTGACGCTCTCCACCTGCCCCAAT 1740
Qy 1741 AGATCTGCTGTCTGGACACAGATCCAGTGGGACTCCCTCAGGGCTGTGTAAGTC 1800
Db 1741 AGATCTGCTGTCTGGACACAGATCCAGTGGGACTCCCTCAGGGCTGTGTAAGTC 1800

PR	07-OCT-1998;	98WO-US021141.	CC	mammals which would be beneficial in inhibiting tumour growth. PRO826,
PR	01-DEC-1998;	98WO-US025108.	CC	PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of
PR	05-JAN-1999;	99WO-US000106.	CC	stimulated T-lymphocytes and are therapeutically useful for enhancing
PR	08-MAR-1999;	99WO-US005028.	CC	immune response. PRO826, PRO1068 or PRO1132 enhance survival of
PR	02-JUN-1999;	99WO-US021252.	CC	retinal neurons cells (PRO1132 is also enhances survival/proliferation of
PR	15-SEP-1999;	99WO-US021090.	CC	rod photoreceptor cells) and therefore are useful for treating retinal
PR	18-SEP-1999;	99WO-US021547.	CC	disorders of injuries, e.g. retinitis pigmentosa, AMD. PRO819, PRO813
PR	30-NOV-1999;	99WO-US028313.	CC	and PRO1066 induce proliferation of mammalian kidney mesangial cells,
PR	01-DEC-1999;	99WO-US028301.	CC	and therefore are useful for treating kidney disorders associated with
PR	01-DEC-1999;	99WO-US028634.	CC	decreased mesangial cell function such as Berger disease or other
PR	16-DEC-1999;	99WO-US030095.	CC	nephropathies associated with dermatitis, herpeticiformis or Crohn's
PR	20-DEC-1999;	99WO-US030911.	CC	disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the
PR	06-JAN-2000;	2000WO-US000219.	CC	proliferation and/or redifferentiation of chondrocytes in culture and are
PR	06-JAN-2000;	2000WO-US000376.	CC	thus useful for treating sports injuries, and arthritis. This sequence
PR	11-FEB-2000;	2000WO-US003565.	CC	represents a primer used in the isolation of DNA encoding novel human PRO
PR	18-FEB-2000;	2000WO-US004341.	CC	polypeptides
PR	22-FEB-2000;	2000WO-US004414.	XX	
PR	24-FEB-2000;	2000WO-US004914.	XX	
PR	24-FEB-2000;	2000WO-US005004.	XX	
PR	02-MAR-2000;	2000WO-US005841.	XX	
PR	10-MAR-2000;	2000WO-US006319.	XX	
PR	15-MAR-2000;	2000WO-US006884.	XX	
PR	20-MAR-2000;	2000WO-US007377.	XX	
PR	30-MAR-2000;	2000WO-US008439.	XX	
PR	15-MAY-2000;	2000WO-US013358.	XX	
PR	17-MAY-2000;	2000WO-US013705.	XX	
PR	22-MAY-2000;	2000WO-US014042.	XX	
PR	30-MAY-2000;	2000WO-US014941.	XX	
PR	02-JUN-2000;	2000WO-US015264.	XX	
PR	28-JUL-2000;	2000WO-US020710.	XX	
PR	11-AUG-2000;	2000WO-US022031.	XX	
PR	23-AUG-2000;	2000WO-US023522.	XX	
PR	24-AUG-2000;	2000WO-US023328.	XX	
PR	08-NOV-2000;	2000WO-US030952.	XX	
PR	01-DEC-2000;	2000WO-US032678.	XX	
PR	28-FEB-2001;	2001WO-US006520.	XX	
PR	01-JUN-2001;	2001WO-US017800.	XX	
PR	20-JUN-2001;	2001WO-US019692.	XX	
PR	23-JUN-2001;	2001WO-US021066.	XX	
PR	09-JUL-2001;	2001WO-US021735.	XX	
PR	28-AUG-2001;	2001US-00941992.	XX	
PA	(GETH) GENENTECH INC.			
PI	Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;			
PI	Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;			
PI	Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoi NF;			
PI	Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;			
PI	Zhang Z;			
XX	WFI; 2003-247083/24.			
XX				
XX	Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1346			
PT	and PRO1375, which stimulate proliferation of stimulated T-lymphocytes			
PT	are therapeutically useful for enhancing immune response and in cancer			
PT	treatments.			
XX				
PS	Example 173; Page 301; 648pp; English.			
XX				
XX	The invention describes an isolated human PRO polypeptide. The PRO			
CC	polypeptides are useful in detecting PRO polypeptides in a sample, in			
CC	linking a bioactive molecule to a cell expressing a PRO polypeptide, and			
CC	in modulating at least one biological activity of a cell expressing a PRO			
CC	polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus			
CC	useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186			
CC	stimulate adrenal cortical capillary endothelial growth, and PRO536,			
CC	PRO943, PRO826, PRO1068 or PRO535, PRO826, PRO819, PRO1126,			
CC	PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus			
CC	useful for treating conditions or disorders where angiogenesis would be			
CC	beneficial, e.g. wound healing and antagonist of this polypeptide are			
CC	useful for treating cancerous tumours. PRO812 inhibits vascular			
CC	endothelial growth factor (VEGF) stimulated proliferation of endothelial			
CC	cells and is thus useful for inhibiting endothelial cell growth in			

Query Match 99.9%; Score 2747; DB 7; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 721 AGCAGTGGCAGCTCTAAGCCCAAGGCTGTCCATCCGATGTCCGATATCTGGCCCCAGTC 780
Qy 781 CTGCTGCTGTGAGCCCTTCTGTCTAGCCGCGAGGCTGTGATCGCCCTTCTGACGACCACTGCTC 840
Db 781 CTGCTGCTGTGAGCCCTTCTGTCTAGCCGCGAGGCTGTGATCGCCCTTCTGACGACCACTGCTC 840
Qy 841 CTGTGGAGAAAGGAGCTCAACAGGCCACCGAGACACAGAGGAAACGAGAAATTTCTGGCTC 900
Db 841 CTGTGGAGAAAGGAGCTCAACAGGCCACCGAGACACAGAGGAAACGAGAAATTTCTGGCTC 900
Qy 901 TCACGCTTGAAGTCTGGAGGAAAGGAGGCCCTTCCAGAGCCCTGTAGGGGGAGCTGATC 960
Db 901 TCACGCTTGAAGTCTGGAGGAAAGGAGGCCCTTCCAGAGCCCTGTAGGGGGAGCTGATC 960
Qy 961 TCGATGCTCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
Db 961 TCGATGCTCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
Qy 1021 TAGGGCAGGAGGCCCTCTCTGGCCAGGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080
Db 1021 TAGGGCAGGAGGCCCTCTCTGGCCAGGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080
Qy 1081 ACCGATTCGCGAAGCTTCCACCTCAGCTCAGCTCAGCTGCGCGGACTCCAGGGCT 1140
Db 1081 ACCGATTCGCGAAGCTTCCACCTCAGCTCAGCTCAGCTGCGCGGACTCCAGGGCT 1140
Qy 1141 CTCCCAACCTCCCGAGGCTCTCTCTGTGATGTTCCAGCTGACCTAGAGAGGTTTGTG 1200
Db 1141 CTCCCAACCTCCCGAGGCTCTCTCTGTGATGTTCCAGCTGACCTAGAGAGGTTTGTG 1200
Qy 1201 AGCCCTGGAGCCAGAGCGGTGGCTTCTCTCCGCTGGAGCTGGGACATCCCTGAT 1260
Db 1201 AGCCCTGGAGCCAGAGCGGTGGCTTCTCTCCGCTGGAGCTGGGACATCCCTGAT 1260
Qy 1261 AGGTTTCAATCTGGGACAGTACAGGCTGTGATCCCTCAGAGGCGCCAGACAGGCT 1320
Db 1261 AGGTTTCAATCTGGGACAGTACAGGCTGTGATCCCTCAGAGGCGCCAGACAGGCT 1320
Qy 1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACTCTCGGGCTCATGCCCCAGTGTG 1380
Db 1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACTCTCGGGCTCATGCCCCAGTGTG 1380
Qy 1381 GACCTGCTCTCTCCACCTCCAGACCCCACTTGTCTTCCCTCCCTGGCGTCTCAGAC 1440
Db 1381 GACCTGCTCTCTCCACCTCCAGACCCCACTTGTCTTCCCTCCCTGGCGTCTCAGAC 1440
Qy 1441 TTAGTCCCAAGTCTCTGATCAGCTGGTGTATGAGAGAGAGCATGCTGGGGTGAGACTG 1500
Db 1441 TTAGTCCCAAGTCTCTGATCAGCTGGTGTATGAGAGAGAGCATGCTGGGGTGAGACTG 1500
Qy 1501 GGATTCCTGGCTTCTCTTGAACCACTGCACTCCAGCCCTTCAGGAAGCCTGTGAAAAACG 1560
Db 1501 GGATTCCTGGCTTCTCTTGAACCACTGCACTCCAGCCCTTCAGGAAGCCTGTGAAAAACG 1560
Qy 1561 TGATTCCTGGCCCAACAGACCCCAACAAACCACTCTCTGGGCTTGGTGAGGACTCTGA 1620
Db 1561 TGATTCCTGGCCCAACAGACCCCAACAAACCACTCTCTGGGCTTGGTGAGGACTCTGA 1620
Qy 1621 ATTCTAACATGCCAGTGTCTGCACTGTGATTTGAGGCGCAGTGGGCTGTGATGAAC 1680
Db 1621 ATTCTAACATGCCAGTGTCTGCACTGTGATTTGAGGCGCAGTGGGCTGTGATGAAC 1680
Qy 1681 GCTCACACCCCTTCAGCTTAGAGTCTGCAATTTGGGCTGTGACGCTCTCCACTGCCCCCAAT 1740
Db 1681 GCTCACACCCCTTCAGCTTAGAGTCTGCAATTTGGGCTGTGACGCTCTCCACTGCCCCCAAT 1740
Qy 1741 AGATCTGCTCTGTCTGCGACACCAAGATCCAGTGGGACTCCCTGTAGGCTCTGTAAGTC 1800
Db 1741 AGATCTGCTCTGTCTGCGACACCAAGATCCAGTGGGACTCCCTGTAGGCTCTGTAAGTC 1800
Qy 1801 CAGCCCTTGGTCAAGTGTGATGATGAGGATAGCCAGGACCGGACAGAGTGG 1860
Db 1801 CAGCCCTTGGTCAAGTGTGATGATGAGGATAGCCAGGACCGGACAGAGTGG 1860

Qy 1861 TTCCCTTTNCCATTTGCCCTCCCTGNCNCAATGCTTCTTCCCTTTGAAAAAATGATGAA 1920
Db 1861 TTCCCTTTNCCATTTGCCCTCCCTGNCNCAATGCTTCTTCCCTTTGAAAAAATGATGAA 1920
Qy 1921 GAAAACTTTGGCTCTTCTTCTGGAAGGGTACTTTCCTTATGCGTCTTCTGCTGCTA 1980
Db 1921 GAAAACTTTGGCTCTTCTTCTGGAAGGGTACTTTCCTTATGCGTCTTCTGCTGCTA 1980
Qy 1981 GAGAGAAAAGTAGAAAAACAGAGTGCACGTAGTGTCTTAACACAGAGGAGAGTAGGAACA 2040
Db 1981 GAGAGAAAAGTAGAAAAACAGAGTGCACGTAGTGTCTTAACACAGAGGAGAGTAGGAACA 2040
Qy 2041 GGGCGGATACCTGAAAGGTGACTCCGAGTCCAGCCCCCTCGAGAAAGGGTGGGTG 2100
Db 2041 GGGCGGATACCTGAAAGGTGACTCCGAGTCCAGCCCCCTCGAGAAAGGGTGGGTG 2100
Qy 2101 GTAAAGCTAGCACAACTACTATTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 2160
Db 2101 GTAAAGCTAGCACAACTACTATTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 2160
Qy 2161 ATCTCGTGTCTGCTGCCAGGCTGGAGTGCAGTGGCAGCATCTGCAAACTCCGCTCTCTGG 2220
Db 2161 ATCTCGTGTCTGCTGCCAGGCTGGAGTGCAGTGGCAGCATCTGCAAACTCCGCTCTCTGG 2220
Qy 2221 GTTCAAGTGAATTTCTTCTGCTCAGCTCCGAGTAGCTGGGATTAACAGGACGCAACCC 2280
Db 2221 GTTCAAGTGAATTTCTTCTGCTCAGCTCCGAGTAGCTGGGATTAACAGGACGCAACCC 2280
Qy 2281 ACACCTGGCTAAATTTTGTACTTTTGTAGTAGAGTGGGTTTCCACCATGTTGGCCAGGCTG 2340
Db 2281 ACACCTGGCTAAATTTTGTACTTTTGTAGTAGAGTGGGTTTCCACCATGTTGGCCAGGCTG 2340
Qy 2341 GTCTGAACTCCCTGACCTCAATGAGCTCTCTGCTCAGTCTCCCAAAATGCGGGATTA 2400
Db 2341 GTCTGAACTCCCTGACCTCAATGAGCTCTCTGCTCAGTCTCCCAAAATGCGGGATTA 2400
Qy 2401 CAGGCATGAGCCACTGTGTCTGGCCCTATTTCTTTTAAAGTGAATTAAGAGTTGTTTC 2460
Db 2401 CAGGCATGAGCCACTGTGTCTGGCCCTATTTCTTTTAAAGTGAATTAAGAGTTGTTTC 2460
Qy 2461 AGTATGCAAACTTGGAAAGATGAGAGGAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 2520
Db 2461 AGTATGCAAACTTGGAAAGATGAGAGGAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 2520
Qy 2521 TAGTCTCAGCAGAGCTATCATTAATTTCTGTTTGTGACTTCTTCCACTCTTTTCTTC 2580
Db 2521 TAGTCTCAGCAGAGCTATCATTAATTTCTGTTTGTGACTTCTTCCACTCTTTTCTTC 2580
Qy 2581 TTCACATAATTTGCCGGTGTCTTTTACAGAGCAATTAATCTTGTATATACACTTTGTA 2640
Db 2581 TTCACATAATTTGCCGGTGTCTTTTACAGAGCAATTAATCTTGTATATACACTTTGTA 2640
Qy 2641 TCTGCTTTTCCACCTTATCTGTTCCATCATTTTATTCAGCAGCTCTCTGTTTGTATACA 2700
Db 2641 TCTGCTTTTCCACCTTATCTGTTCCATCATTTTATTCAGCAGCTCTCTGTTTGTATACA 2700
Qy 2701 GACCTTTTATAAATAAATGTTTCATCAGCTGCATAAAAAATAAAAAA 2749
Db 2701 GACCTTTTATAAATAAATGTTTCATCAGCTGCATAAAAAATAAAAAA 2749

RESULT 10

ACA69381

ID ACA69381 standard; cDNA; 2749 BP.

XX ACA69381;

AC ACA69381;

DT 26-JUN-2003 (first entry)

XX

DE Human cDNA encoding secreted/transmembrane protein PRO846.

XX

KW Human; ss; gene; PRO; secreted protein; transmembrane protein;

KW cardiac insufficiency disorders; angiogenesis; wound healing;
KW cancerous tumour; immune response; retinal disorder; sight loss;
KW retinitis pigmentosa; age-related macular degeneration; AMD;
KW kidney disorder; Berger disease; nephropathy; dermatitis; herpetiformis;
KW Crohn's disease; sports injury; arthritis.
XX
OS Homo sapiens.
XX
XX
PN US2003032023-A1.
XX
XX
PD 13-FEB-2003.
XX
XX
PF 14-NOV-2001; 2001US-00990711.
XX
XX
PR 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97WO-US020069.
PR 12-NOV-1997; 97US-0065186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.
PR 25-FEB-1998; 98US-0075945P.
PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083322P.
PR 07-MAY-1998; 98US-0084600P.
PR 28-MAY-1998; 98US-0087106P.
PR 02-JUN-1998; 98US-0087607P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088026P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088030P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 05-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088734P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088742P.
PR 10-JUN-1998; 98US-0088810P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 12-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089947P.
PR 19-JUN-1998; 98US-0089948P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 23-JUN-1998; 98US-0090349P.
PR 23-JUN-1998; 98US-0090355P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090431P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090445P.
PR 24-JUN-1998; 98US-0090472P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 24-JUN-1998; 98US-0090542P.
PR 24-JUN-1998; 98US-0090557P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 01-JUL-1998; 98US-0091360P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091519P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091633P.
PR 02-JUL-1998; 98US-0091646P.
PR 02-JUL-1998; 98US-0091673P.
PR 07-JUL-1998; 98US-0091978P.
PR 07-JUL-1998; 98US-0091982P.
PR 09-JUL-1998; 98US-0092182P.
PR 10-JUL-1998; 98US-0092472P.
PR 20-JUL-1998; 98US-0093339P.
PR 30-JUL-1998; 98US-0094651P.
PR 04-AUG-1998; 98US-0095282P.
PR 04-AUG-1998; 98US-0095285P.
PR 04-AUG-1998; 98US-0095301P.
PR 04-AUG-1998; 98US-0095302P.
PR 04-AUG-1998; 98US-0095318P.
PR 04-AUG-1998; 98US-0095321P.
PR 04-AUG-1998; 98US-0095325P.
PR 10-AUG-1998; 98US-0095316P.
PR 10-AUG-1998; 98US-0095929P.
PR 10-AUG-1998; 98US-0096012P.
PR 11-AUG-1998; 98US-0096143P.
PR 11-AUG-1998; 98US-0096146P.
PR 12-AUG-1998; 98US-0096329P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096768P.
PR 17-AUG-1998; 98US-0096773P.
PR 17-AUG-1998; 98US-0096791P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096894P.
PR 17-AUG-1998; 98US-0096895P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096950P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0096960P.
PR 18-AUG-1998; 98US-0097022P.
PR 18-AUG-1998; 98US-0097141P.
PR 20-AUG-1998; 98US-0097218P.
PR 24-AUG-1998; 98US-0097661P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097977P.
PR 26-AUG-1998; 98US-0097978P.
PR 26-AUG-1998; 98US-0097979P.
PR 26-AUG-1998; 98US-0097986P.
PR 26-AUG-1998; 98US-0098014P.
PR 31-AUG-1998; 98US-0098525P.

PR 16-SEP-1998; 98US-0100634P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100858P.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 01-DEC-1998; 98WO-US025108.
PR 22-DEC-1998; 98US-0113296P.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 12-MAR-1999; 99US-0123957P.
PR 02-JUN-1999; 99WO-US012252.
PR 23-JUN-1999; 99US-0141037P.
PR 07-JUL-1999; 99US-0143048P.
PR 20-JUL-1999; 99US-0144758P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.
PR 17-AUG-1999; 99US-0149396P.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 08-OCT-1999; 99US-0158663P.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006984.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 23-JUN-2000; 2000US-0213637P.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.

Query Match 99.98; Score 2747; DB 7; Length 2749;
Best Local Similarity 100.0%; Pred. NO. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTCCACGGTGTCCAGCGCCAGAAATCGGGTCTCTGGTCTCTGCTATGGGGTTGCTGCTG 60
Db 1 CTCCACGGTGTCCAGCGCCAGAAATCGGGTCTCTGGTCTCTGCTATGGGGTTGCTGCTG 60

Qy 61 CTCCACGGTTATGAAGCCCTGGAGGGCCAGAGAAATCAAGCGGTTTGAAGGGGACACT 120
Db 61 CTCCACGGTTATGAAGCCCTGGAGGGCCAGAGAAATCAGCGGTTTGAAGGGGACACT 120

Qy 121 GTGTCCCTGCAGTGCACCTACAGGGAGAGCTGAGGGACCAACCGGAAGTACTGGTGCAGG 180
Db 121 GTGTCCCTGCAGTGCACCTACAGGGAGAGCTGAGGGACCAACCGGAAGTACTGGTGCAGG 180

Qy 181 AAGGGTGGGATCTCTTCTCTCGTCTGGCACCACTATGACAGAAAGAAAGGCGCAG 240
Db 181 AAGGGTGGGATCTCTTCTCTCGTCTGGCACCACTATGACAGAAAGAAAGGCGCAG 240

Qy 241 GAGCAATGAAGGGCAGGGTGTCCATCCGTGACAGCGCCAGGAGCTCTCGCTCATTTGTG 300
Db 241 GAGCAATGAAGGGCAGGGTGTCCATCCGTGACAGCGCCAGGAGCTCTCGCTCATTTGTG 300

Qy 301 ACCCTGTGGAACCTCAACCTGCAAGACGCTGGGGAGTACTGGTGGGGTGCAGAAACGG 360
Db 301 ACCCTGTGGAACCTCAACCTGCAAGACGCTGGGGAGTACTGGTGGGGTGCAGAAACGG 360

Qy 361 GGCCCGGATGAGTCTTTACTGATCTCTCTGTTTCTGTTTCAAGAACCTGTCTCTCTCCC 420
Db 361 GGCCCGGATGAGTCTTTACTGATCTCTCTGTTTCTGTTTCAAGAACCTGTCTCTCTCCC 420

Qy 421 TCCCTTCTCCACCTTCCAGCCTCTGGCTTACACAGCGCTGAGCGCCAGGCAAAAGCT 480
Db 421 TCCCTTCTCCACCTTCCAGCCTCTGGCTTACACAGCGCTGAGCGCCAGGCAAAAGCT 480

Qy 481 CAGCAAAACCCAGCGCCCGCAGGATTTGACTTCTCTCTGGGCTTACCGCGGAGCCACACAGCC 540
Db 481 CAGCAAAACCCAGCGCCCGCAGGATTTGACTTCTCTCTGGGCTTACCGCGGAGCCACACAGCC 540

Qy 541 AAGCAGGGGAAGACAGGGGCTGAGGGCCCTTCCATTTGACAGGACTTCCCAAGTACGGGAC 600
Db 541 AAGCAGGGGAAGACAGGGGCTGAGGGCCCTTCCATTTGACAGGACTTCCCAAGTACGGGAC 600

Qy 601 GAAAGGACTTCTCAGTACACAGGAACTCTCTCTCACCCAGGAGACCTCTCTCTCTGCAAGG 660
Db 601 GAAAGGACTTCTCAGTACACAGGAACTCTCTCTCACCCAGGAGACCTCTCTCTCTGCAAGG 660

Qy 661 AGCTCCCGCCCGCCCATGACAGTGGACTCCACCTCAGCAGAGAGACACAGTCCAGTCTTC 720
Db 661 AGCTCCCGCCCGCCCATGACAGTGGACTCCACCTCAGCAGAGAGAGACACAGTCCAGTCTTC 720

Qy 721 AGCAGTGGCAGCTTAAAGCCCAAGGGTGTCCATCCCGATGTCCGATATCTGGGCCCAAGTC 780
Db 721 AGCAGTGGCAGCTTAAAGCCCAAGGGTGTCCATCCCGATGTCCGATATCTGGGCCCAAGTC 780

Qy 781 CTGGTGTCTGTAGCCTTCTGTGACCGGAGGCTGTATCGCTTCTGACGACCACTGCTC 840
Db 781 CTGGTGTCTGTAGCCTTCTGTGACCGGAGGCTGTATCGCTTCTGACGACCACTGCTC 840

Qy 841 CTGTGAGAAAGGAAGCTCAAGAGGCTCAAGAGGCTCAAGAGGCTCAAGAGGCTCAAGAGG 900
Db 841 CTGTGAGAAAGGAAGCTCAAGAGGCTCAAGAGGCTCAAGAGGCTCAAGAGGCTCAAGAGG 900

Qy 901 TCACGCTTGAATCGGAGGAAAGAGGAGCCCTTCCAGGCGCTGAGGGGAGCTGATC 960
Db 901 TCACGCTTGAATCGGAGGAAAGAGGAGCCCTTCCAGGCGCTGAGGGGAGCTGATC 960

Qy 961 TCGATGCTCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTGAAAGTTTGTCTCAGCG 1020
Db 961 TCGATGCTCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTGAAAGTTTGTCTCAGCG 1020

Qy 1021 TAGGGCAGGAGGCGCTCTCGGCGAGGCGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1080
Db 1021 TAGGGCAGGAGGCGCTCTCGGCGAGGCGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1080

Qy 1081 ACCGATTTCCGAAAGCTTTCCACCTCAGCCTCAGAGTCCAGGCTGCCCGGACTCCAGGGCT 1140
Db 1081 ACCGATTTCCGAAAGCTTTCCACCTCAGCCTCAGAGTCCAGGCTGCCCGGACTCCAGGGCT 1140

Qy 1141 CTCCCAACCTCCCGAGGCTCTCTCTTGTGATGTTTCAGCCTGACCTAGAGGCTTTGTC 1200
Db 1141 CTCCCAACCTCCCGAGGCTCTCTCTTGTGATGTTTCAGCCTGACCTAGAGGCTTTGTC 1200

Qy 1201 AGCCCTGAGCGCCAGAGCGGTGGCTTGTCTTCCGGCTGAGAGTGGGACATCCCTGAT 1260
Db 1201 AGCCCTGAGCGCCAGAGCGGTGGCTTGTCTTCCGGCTGAGAGTGGGACATCCCTGAT 1260

Qy 1261 AGGTTTCAATCTCCCTGGGAGTACAGGCTGTGACCTCAGCAGGGGCCAGCAAGGCT 1320
Db 1261 AGGTTTCAATCTCCCTGGGAGTACAGGCTGTGACCTCAGCAGGGGCCAGCAAGGCT 1320

Qy 1321 CAGTGAATCTGGTCTGAGTTTCAATCTGCCAGGAACTCTCTGGGCTCATGCGCCAGTGTG 1380
Db 1321 CAGTGAATCTGGTCTGAGTTTCAATCTGCCAGGAACTCTCTGGGCTCATGCGCCAGTGTG 1380

Qy 1381 GACCTGCTCTCTCCACCTCCAGAGCCCACTTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1440
Db 1381 GACCTGCTCTCTCTCCACCTCCAGAGCCCACTTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1440

1441 TTAGTCCACCGGTCTCTGATCAGCTGGTGTGATGAAGAGAGCATGCTGGGGTGAGACTG 1500
1441 TTAGTCCACCGGTCTCTGATCAGCTGGTGTGATGAAGAGAGCATGCTGGGGTGAGACTG 1500
1501 GGATTCTGGGTTCTTTTGAACACACCTGATCAGCCCTTCAGGAAGCCTGTGAAAAACG 1560
1501 GGATTCTGGGTTCTTTTGAACACACCTGATCAGCCCTTCAGGAAGCCTGTGAAAAACG 1560
1561 TGATTCTGCGCCCAACCAAGACCCACCAAAACCATCTCTGGGCTTGGTGCAGAGCTCTGA 1620
1561 TGATTCTGCGCCCAACCAAGACCCACCAAAACCATCTCTGGGCTTGGTGCAGAGCTCTGA 1620
1621 ATTCTAAACAATGCCAGTACTGTGCACTTGAGTTTGAAGGGCCAGTGGCCCTGATGAAC 1680
1621 ATTCTAAACAATGCCAGTACTGTGCACTTGAGTTTGAAGGGCCAGTGGCCCTGATGAAC 1680
1681 GCTCACACCCCTTTCAGCTTAGAGTCTGCATTTGGGCTGTGACGTCTCCACCTGCCCCAAT 1740
1681 GCTCACACCCCTTTCAGCTTAGAGTCTGCATTTGGGCTGTGACGTCTCCACCTGCCCCAAT 1740
1741 AGATCTGCTCTGTCTGCGACACAGATCCACGTGGGACTCCCTGAGGCTCTGTAAGTC 1800
1741 AGATCTGCTCTGTCTGCGACACAGATCCACGTGGGACTCCCTGAGGCTCTGTAAGTC 1800
1801 CAGGCTTTGGTTCAGGTGACATTTGCAGGATTAAGCCAGGACCGGCACAGAAAGTGG 1860
1801 CAGGCTTTGGTTCAGGTGACATTTGCAGGATTAAGCCAGGACCGGCACAGAAAGTGG 1860
1861 TTGCTTTTNCATTTGGCTTCCCTGCGNCAATGCTTTCGCTTTGAAAAAATGATGAA 1920
1861 TTGCTTTTNCATTTGGCTTCCCTGCGNCAATGCTTTCGCTTTGAAAAAATGATGAA 1920
1921 GAAAACTTGGCTTCTTCTGCTGCAAGAGGTTACTTCCCTATGGTTCTGTTGCTA 1980
1921 GAAAACTTGGCTTCTTCTGCTGCAAGAGGTTACTTCCCTATGGTTCTGTTGCTA 1980
1981 GAGAGAAAGTAGAAAAACAGAGTGACAGTGTGTCTAAACACAGAGGAGATAGGAACA 2040
1981 GAGAGAAAGTAGAAAAACAGAGTGACAGTGTGTCTAAACACAGAGGAGATAGGAACA 2040
2041 GGGCGGATACCTGAAGTGATCTCGAGTCCAGCCCTCGAGAGAGGGGTGGGGTGGTG 2100
2041 GGGCGGATACCTGAAGTGATCTCGAGTCCAGCCCTCGAGAGAGGGGTGGGGTGGTG 2100
2101 GTAAAGTAGACACTACTATTTTTTTTCTTTTCCATTTATTTGTTTAAAGACAGA 2160
2101 GTAAAGTAGACACTACTATTTTTTTTCTTTTCCATTTATTTGTTTAAAGACAGA 2160
2161 ATCTCGTGTGCTGCCAGGTGGAGTGCAAGTGGCAGCATCTGCAAACTCGCCTCTCTGG 2220
2161 ATCTCGTGTGCTGCCAGGTGGAGTGCAAGTGGCAGCATCTGCAAACTCGCCTCTCTGG 2220
2221 GTTCAAGTGATTTCTTCTGCTCAGCCTCCGAGTAGCTGGGATTTACAGGCACGCCACC 2280
2221 GTTCAAGTGATTTCTTCTGCTCAGCCTCCGAGTAGCTGGGATTTACAGGCACGCCACC 2280
2281 ACACCTGGCTAAATTTTGTACTTTTGTAGAGATGGGGTTTCCATGTTGGCCAGGCTG 2340
2281 ACACCTGGCTAAATTTTGTACTTTTGTAGAGATGGGGTTTCCATGTTGGCCAGGCTG 2340
2341 GTCTTTGAACCTCTGACCTCAAAATGAGCTCTCTGCTTCCAGTCTCCCAAAATGCGGGATTA 2400
2341 GTCTTTGAACCTCTGACCTCAAAATGAGCTCTCTGCTTCCAGTCTCCCAAAATGCGGGATTA 2400
2401 CAGCATGAGCCACTGTGCTGGCCCTATTTCCTTTTAAAGTGAATTAAGAGTTGTTTC 2460
2401 CAGCATGAGCCACTGTGCTGGCCCTATTTCCTTTTAAAGTGAATTAAGAGTTGTTTC 2460
2461 AGTATGCAAACTTGAAGATGAGGAGAAAAAGGAGAAAAAATGTCACCCA 2520
2461 AGTATGCAAACTTGAAGATGAGGAGAAAAAGGAGAAAAAATGTCACCCA 2520
2521 TAGTCTCACCAGAGACTCATTTATTTTCTGTTTGTACTTCTTCCACTCTTTTCTTC 2580

2521 TAGTCTCACCAGAGACTCATTTATTTCTGTTTGTACTTCTTCCACTCTTTTCTTC 2580
2581 TTACACATAATTTGCGGGTGTCTTTTACAGAGCAATTAATCTGTATATACAACTTTGTA 2640
2581 TTACACATAATTTGCGGGTGTCTTTTACAGAGCAATTAATCTGTATATACAACTTTGTA 2640
2641 TCCTGCTTTTCCACCTTATCGTTCCATCACTTTATTTCCAGCACTTCTCTGTGTTTACA 2700
2641 TCCTGCTTTTCCACCTTATCGTTCCATCACTTTATTTCCAGCACTTCTCTGTGTTTACA 2700
2701 GACCTTTTATTAATAAATGTTTCATCAGCTGCATATAAAAAA 2749
2701 GACCTTTTATTAATAAATGTTTCATCAGCTGCATATAAAAAA 2749
RESULT 11
ACD24045
ID ACD24045 standard; cDNA; 2749 BP.
XX
XX ACD24045;
XX AC
XX DT 26-AUG-2003 (first entry)
XX
XX Novel human secreted and transmembrane protein PRO846 cDNA.
XX Human; secreted and transmembrane protein; PRO; antiinflammatory;
XX antiarteriosclerotic; cardiant; anti-infectivity; anti-HIV; cytostatic;
XX antidiabetic; gene therapy; tumour necrosis factor (TNF)-alpha release;
XX TNF-alpha release; cell proliferation; cell differentiation;
XX gene expression modulator; proteoglycan release; cytokine release;
XX tumour; inflammatory disease; organ failure; atherosclerosis;
XX cardiac injury; infertility; birth defect; premature aging; AIDS;
XX acquired immunodeficiency syndrome; cancer; diabetic complication;
XX chromosome mapping; gene mapping; pharmaceutical; diagnostic; biosensor;
XX bioreactor; tissue typing; gene; ss.
XX Homo sapiens.
XX OS
XX XX
XX PN
XX PD
XX PF
XX PF 06-MAY-2002; 2002US-00140474.
XX 31-MAR-1997; 97WO-US005230.
XX 12-JUN-1998; 98WO-US012456.
XX 14-JUL-1998; 98WO-US014552.
XX 28-AUG-1998; 98WO-US017888.
XX 10-SEP-1998; 98WO-US018824.
XX 14-SEP-1998; 98WO-US019093.
XX 14-SEP-1998; 98WO-US019094.
XX 14-SEP-1998; 98WO-US019177.
XX 16-SEP-1998; 98WO-US019330.
XX 17-SEP-1998; 98WO-US019437.
XX 07-OCT-1998; 98WO-US021141.
XX 29-OCT-1998; 98WO-US022991.
XX 29-OCT-1998; 98WO-US022992.
XX 20-NOV-1998; 98WO-US024855.
XX 01-DEC-1998; 98WO-US025108.
XX 05-JAN-1999; 99WO-US000106.
XX 08-MAR-1999; 99WO-US005190.
XX 10-MAR-1999; 99WO-US008615.
XX 20-APR-1999; 99WO-US010733.
XX 14-MAY-1999; 99WO-US012252.
XX 02-JUN-1999; 99WO-US020111.
XX 01-SEP-1999; 99WO-US020594.
XX 08-SEP-1999; 99WO-US020944.
XX 13-SEP-1999; 99WO-US021090.
XX 15-SEP-1999; 99WO-US021547.
XX 05-OCT-1999; 99WO-US023089.
XX 29-NOV-1999; 99WO-US028214.

```
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 22-DEC-1999; 99WO-US030720.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005501.
PR 02-MAR-2000; 2000WO-US005746.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032578.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001US-00796498.
PR 01-MAR-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006666.
PR 09-MAR-2001; 2001US-00802706.
PR 14-MAR-2001; 2001US-00808689.
PR 22-MAR-2001; 2001US-00816744.
PR 05-APR-2001; 2001US-00828366.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 18-MAY-2001; 2001US-00860216.
PR 25-MAY-2001; 2001US-00866028.
PR 25-MAY-2001; 2001US-00866034.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US019692.
PR 21-JUN-2001; 2001US-00887879.
PR 22-JUN-2001; 2001WO-US020116.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 06-AUG-2001; 2001US-00924419.
PR 09-AUG-2001; 2001US-00927796.
PR 16-AUG-2001; 2001US-00931836.
PR 19-DEC-2001; 2001US-00028072.
XX
PR (GETH ) GENENTECH INC.

XX
Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W,
Garritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S,
Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
WPI; 2003-341980/32.
DR P-PSDB; ABO17808.
XX
New secreted and transmembrane PRO nucleic acids, for treating
PT inflammation, organ failure, atherosclerosis, cardiac injury,
PT infertility, birth defects, premature aging, acquired immunodeficiency
PT syndrome (AIDS), or cancer.
XX
Claim 2; Fig 385; 660pp; English.
XX
The invention describes an isolated nucleic acid (I) comprising, or which
has 80 % sequence identity to, or the full-length coding sequence of, one
of 275 nucleotide sequences, and which encodes a corresponding
polypeptide selected from 275 amino acid sequences, where all sequences
are given in the specification. The polypeptide encoded by (I) is used to
detect PRO polypeptides, link a bioactive molecule to a cell expressing a
PRO polypeptide, modulate a biological activity of a cell, stimulate the
release of tumour necrosis factor (TNF)-alpha from human blood, modulate
the uptake of glucose or free fatty acid by cells, stimulate or inhibit
the proliferation or differentiation of cells or gene expression,
stimulate the release of proteoglycans, inhibit the binding of A-peptide
from peripheral blood mononuclear cells, inhibit the binding of A-peptide
to factor VIIA, or detect the presence of tumour in a mammal. The nucleic
acid and polypeptide encoded by it, are useful for treating inflammatory
diseases, organ failure, atherosclerosis, cardiac injury, infertility,
birth defects, premature aging, acquired immunodeficiency syndrome
(AIDS), cancer, or diabetic complications. The nucleic acid is useful as
hybridisation probes, in chromosome and gene mapping, and in generating
antisense RNA or DNA. The polypeptides are useful as pharmaceuticals,
diagnostics, biosensors or bioreactors. Both are useful in tissue typing.
CC This sequence encodes a novel human secreted and transmembrane PRO
polypeptide
XX
SQ Sequence 2749 BP; 599 A; 811 C; 698 G; 639 T; 0 U; 2 Other;

Query Match 99.9%; Score 2747; DB 7; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCCTCAGGTGTCTCAGCGCCAGCAATGCGGCTTCTGTGCTCTGCTATGCGGTGCTGCTG 60
DB 1 CTCCTCAGGTGTCTCAGCGCCAGCAATGCGGCTTCTGTGCTCTGCTATGCGGTGCTGCTG 60

QY 61 CTCCTCAGGTGTCTCAGCGCCAGCAATGCGGCTTCTGTGCTCTGCTATGCGGTGCTGCTG 120
DB 61 CTCCTCAGGTGTCTCAGCGCCAGCAATGCGGCTTCTGTGCTCTGCTATGCGGTGCTGCTG 120

QY 121 GTGTCTCCTGAGTGCACCTTACAGGGAAGAGCTGAGGACACCGGAGTACTGTGTCAGG 180
DB 121 GTGTCTCCTGAGTGCACCTTACAGGGAAGAGCTGAGGACACCGGAGTACTGTGTCAGG 180

QY 181 AAGGGTGGGATCTCTTCTCTCTGCTCTGCGCACCATCTATGCGAAGAAAGAGGCGAG 240
DB 181 AAGGGTGGGATCTCTTCTCTCTGCTCTGCGCACCATCTATGCGAAGAAAGAGGCGAG 240

QY 241 GAGACAAATGAAGGGCAGGGGTGTCCATCCGTGACAGCGCCAGGAGCTCTCGCTCATTTGTG 300
DB 241 GAGACAAATGAAGGGCAGGGGTGTCCATCCGTGACAGCGCCAGGAGCTCTCGCTCATTTGTG 300

QY 301 ACCCTGTGGAACCTCACCTTGCAGAGCTGTGGGAGTACTGTGCTGTGGGGTCGAAAAACGG 360
DB 301 ACCCTGTGGAACCTCACCTTGCAGAGCTGTGGGAGTACTGTGCTGTGGGGTCGAAAAACGG 360

QY 361 GGCCCGGATGAGTCTTTTACTGATCTCTCTGCTCTTCCAGGACCTGCTGCTCTCTCCC 420
DB 361 GGCCCGGATGAGTCTTTTACTGATCTCTCTGCTCTTCCAGGACCTGCTGCTCTCTCCC 420

QY 421 TCCCTTCTCCACCTTCCAGCCTCTGGCTTACAAACGCTGCGAGCCCAAGGCAAAAGCT 480
```

Db 421 |||||TCCTCTCCCTTCAGCCTCTGCTACAAACGCTGAGCCCAAGGAAAAGCT 480
Qy 481 CAGCAAAACCCAGCCCCCAGAGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCAAGCC 540
Db 481 CAGCAAAACCCAGCCCCCAGAGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCAAGCC 540
Qy 541 AAGCAGGGGAAGACAGGGGCTGAGGGCCCTCCATTGCGCAGGAGCTTCCCAAGTACGGGCAC 600
Db 541 AAGCAGGGGAAGACAGGGGCTGAGGGCCCTCCATTGCGCAGGAGCTTCCCAAGTACGGGCAC 600
Qy 601 GAAAGGACTTCTCAGTACACAGGAACTTCTCTTCAACCCAGGACCTCTCTCTCTGACGG 660
Db 601 GAAAGGACTTCTCAGTACACAGGAACTTCTCTCTTCAACCCAGGACCTCTCTCTCTGACGG 660
Qy 661 AGCTCCCGCCCCCCTAAGCTGAGCTGGAATCCACCTCAGCAGAGACACCACTCCAGCTCTC 720
Db 661 AGCTCCCGCCCCCCTAAGCTGAGCTGGAATCCACCTCAGCAGAGACACCACTCCAGCTCTC 720
Qy 721 AGCAGTGGCAGCTCTAAGCCAGGGTGTCCATCCCGATGGTCCGATPACTGGGCCCAAGTC 780
Db 721 AGCAGTGGCAGCTCTAAGCCAGGGTGTCCATCCCGATGGTCCGATPACTGGGCCCAAGTC 780
Qy 781 CTGGTGTCTGAGCCTTCTGTAGCCGAGGGCTGATCGCCTTCTGACGCACTTGTCTC 840
Db 781 CTGGTGTCTGAGCCTTCTGTAGCCGAGGGCTGATCGCCTTCTGACGCACTTGTCTC 840
Qy 841 CTGTGGGAAGAGAGCTCAACAGGCCACCGGACACAGAGGAAACAGAGAGTCTGGCTC 900
Db 841 CTGTGGGAAGAGAGCTCAACAGGCCACCGGACACAGAGGAAACAGAGAGTCTGGCTC 900
Qy 901 TCACGCTTGACTCGGAGGAAAGAGAGCCCTTCCAGGCCCTCAGGGGGACGAGTC 960
Db 901 TCACGCTTGACTCGGAGGAAAGAGAGCCCTTCCAGGCCCTCAGGGGGACGAGTC 960
Qy 961 TCGATGCTCCCTTCCACACATCTGAGGAGAGAGCTGGGCTTCTCGAAGTGTGTCTCAGCG 1020
Db 961 TCGATGCTCCCTTCCACACATCTGAGGAGAGCTGGGCTTCTCGAAGTGTGTCTCAGCG 1020
Qy 1021 TAGGGCAGAGGCCCTCTCGGCCAGGCCACGAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080
Db 1021 TAGGGCAGAGGCCCTCTCGGCCAGGCCACGAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080
Qy 1081 ACCGATTCCCGAAAGCTTTCACCTCAGCCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT 1140
Db 1081 ACCGATTCCCGAAAGCTTTCACCTCAGCCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT 1140
Qy 1141 CTCCCAACCTTCCCGAGGCTCTCTCTTGTGATGTTCCAGCCTGACCTAGAGGCTTTGTC 1200
Db 1141 CTCCCAACCTTCCCGAGGCTCTCTCTTGTGATGTTCCAGCCTGACCTAGAGGCTTTGTC 1200
Qy 1201 AGCCCTGGAGCCAGAGCGGTGGCTTGTCTTCCGGCTGGAGACTGGGACATCCCTGAT 1260
Db 1201 AGCCCTGGAGCCAGAGCGGTGGCTTGTCTTCCGGCTGGAGACTGGGACATCCCTGAT 1260
Qy 1261 AGGTTTCAATCTCCCTGGCAGAGTACAGAGCTGTGTGACCTCAGCAGGGCCAGACAAGGCT 1320
Db 1261 AGGTTTCAATCTCCCTGGCAGAGTACAGAGCTGTGTGACCTCAGCAGGGCCAGACAAGGCT 1320
Qy 1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACTCTCTGGGCTCATGCCAGTGTG 1380
Db 1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACTCTCTGGGCTCATGCCAGTGTG 1380
Qy 1381 GACCTGCTCTTCCCTCCAGCCACCTTGTCTTCCCTCCCTGGGCTCTCAGAC 1440
Db 1381 GACCTGCTCTTCCCTCCAGCCACCTTGTCTTCCCTCCCTGGGCTCTCAGAC 1440
Qy 1441 TTAGTCCCAAGCTCTCTGATCAGCTGGTGAAGAGAGAGATGCTGGGGTGAGACTG 1500
Db 1441 TTAGTCCCAAGCTCTCTGATCAGCTGGTGAAGAGAGAGATGCTGGGGTGAGACTG 1500
Qy 1501 GGAATCTGGCTTCTCTTTGAAACCACTCGATCCAGCCCTTTCAGAGCCCTGTGAAACG 1560

Db 1501 GGAATCTGGCTTCTCTTTGAAACCACTCGATCCAGCCCTTTCAGGAAAGCCTGTGAAACG 1560
Qy 1561 TGATTTCTGGCCCCCACAAGACCAAAACCATCTCTGGGCTTGGTGAGGACTCTGA 1620
Db 1561 TGATTTCTGGCCCCCACAAGACCAAAACCATCTCTGGGCTTGGTGAGGACTCTGA 1620
Qy 1621 ATTCTAAATATGCCAGTGTGCTCGCATTTGAGTTGAGGGCCAGTGGGCTGTGAAC 1680
Db 1621 ATTCTAAATATGCCAGTGTGCTCGCATTTGAGTTGAGGGCCAGTGGGCTGTGAAC 1680
Qy 1681 GCTCACACCTTTCAGTTAGAGTCTGGCATTTGGGCTGTGACGCTTCCACTGCCCCAAT 1740
Db 1681 GCTCACACCTTTCAGTTAGAGTCTGGCATTTGGGCTGTGACGCTTCCACTGCCCCAAT 1740
Qy 1741 AGATCTGCTCTGTCTCGACACCAAGTCCAGTGGGACTTCCCTCAGGGCTGTGAAGTC 1800
Db 1741 AGATCTGCTCTGTCTGGACACCAAGTCCAGTGGGACTTCCCTCAGGGCTGTGAAGTC 1800
Qy 1801 CAGGCTTGGTCAAGTCAAGTGCATTTGAGATTAAGCCAGGACCCGACAGAGTGG 1860
Db 1801 CAGGCTTGGTCAAGTCAAGTGCATTTGAGATTAAGCCAGGACCCGACAGAGTGG 1860
Qy 1861 TTGGCTTTTCCATTTGGCTTCCCTGCGNCCATGCTTCTTGGCTTTGAAAAAATGATGA 1920
Db 1861 TTGGCTTTTCCATTTGGCTTCCCTGCGNCCATGCTTCTTGGCTTTGAAAAAATGATGA 1920
Qy 1921 GAAAACTTGGCTTCTTCTTGTCTGAAAGGGTACTTGGCTATGGGTTCTGGTGGCTA 1980
Db 1921 GAAAACTTGGCTTCTTCTTGTCTGAAAGGGTACTTGGCTATGGGTTCTGGTGGCTA 1980
Qy 1981 GAGAGAAAGTAGAAAAACAGAGTGCACGTTAGTGTCTTAACAGAGGAGAGTAGGAACA 2040
Db 1981 GAGAGAAAGTAGAAAAACAGAGTGCACGTTAGTGTCTTAACAGAGGAGAGTAGGAACA 2040
Qy 2041 GGGGGATACCTGAAAGGTGACTCCGAGTCCAGCCCTCGAGAGAGGGTCCGGGGTGGTG 2100
Db 2041 GGGGGATACCTGAAAGGTGACTCCGAGTCCAGCCCTCGAGAGAGGGTCCGGGGTGGTG 2100
Qy 2101 GTAAAGTAGCAAACTACTATTTTTTTTCTTTTTCATTTATTTTAAAGACAGA 2160
Db 2101 GTAAAGTAGCAAACTACTATTTTTTTTCTTTTTCATTTATTTTAAAGACAGA 2160
Qy 2161 ATCTGCTGTCTGCCAGGCTGAGTGGGACGATCTGCATACTCCGCTCTCTGG 2220
Db 2161 ATCTGCTGTCTGCCAGGCTGAGTGGGACGATCTGCATACTCCGCTCTCTGG 2220
Qy 2221 GTTCAAGTGTCTTCTGCTCAGCCTCCGAGTGTGGATTCAGGCAACCCACACC 2280
Db 2221 GTTCAAGTGTCTTCTGCTCAGCCTCCGAGTGTGGATTCAGGCAACCCACACC 2280
Qy 2281 ACACCTGGCTAAATTTTGTACTTTTAGTAGAGATGGGGTTTACCATTTGGCCAGGCTG 2340
Db 2281 ACACCTGGCTAAATTTTGTACTTTTAGTAGAGATGGGGTTTACCATTTGGCCAGGCTG 2340
Qy 2341 GTCTTGAACCTCTGACCTCAATGAGCCTCTCTTCAATTTCCAAATTTCCGGGATTA 2400
Db 2341 GTCTTGAACCTCTGACCTCAATGAGCCTCTCTTCAATTTCCAAATTTCCGGGATTA 2400
Qy 2401 CAGGCAATGAGCCACTGTGTCTGGCCCTATTTCTTTTAAAGATGAATTAAGAGTTGTTT 2460
Db 2401 CAGGCAATGAGCCACTGTGTCTGGCCCTATTTCTTTTAAAGATGAATTAAGAGTTGTTT 2460
Qy 2461 AGTATGCAAACTTTGGAAGATGAGAGAAAAAGAAAAAGAAAAAATGTACCCCA 2520
Db 2461 AGTATGCAAACTTTGGAAGATGAGAGAAAAAGAAAAAGAAAAAATGTACCCCA 2520
Qy 2521 TAGTCTCACAGAGACTATCATTTTCTGGTTTGTGACTTCTCTTCCACTCTTTTCTTC 2580
Db 2521 TAGTCTCACAGAGACTATCATTTTCTGGTTTGTGACTTCTCTTCCACTCTTTTCTTC 2580
Qy 2581 TTCAATATTTCCGGTGTCTTTTACAGAGCAATTAATCTTGTATATCAACTTTGTA 2640
Db 2581 TTCAATATTTCCGGTGTCTTTTACAGAGCAATTAATCTTGTATATCAACTTTGTA 2640

OY 2641 TCTGCTTTTCCACCTTATCGTTCCATCACTTTATTCACGACCTTCTCTGCTTTTACA 2700
|||||
Db 2641 TCTGCTTTTCCACCTTATCGTTCCATCACTTTATTCACGACCTTCTCTGCTTTTACA 2700
|||||
OY 2701 GACCTTTTATAATAAATGTTTCACGCTGCATATAAAAAA 2749
|||||
Db 2701 GACCTTTTATAATAAATGTTTCACGCTGCATATAAAAAA 2749
|||||

RESULT 12

ABX90452

ID ABX90452 standard; cDNA; 2749 BP.

XX AC ABX90452;

XX DT 01-MAY-2003 (first entry)

XX DE Human secreted/transmembrane protein cDNA, #183.

XX KW Human; gene; ss; PRO; secreted; transmembrane; signal peptide;

KW pharmaceutical; diagnostic; therapeutic; gene therapy.

XX OS Homo sapiens.

XX PN US2002160384-A1.

XX PD 31-OCT-2002.

XX PF 14-NOV-2001; 2001US-00992598.

XX PR 16-JUN-1997; 97US-0049787P.

PR 17-OCT-1997; 97US-0062250P.

PR 05-NOV-1997; 97WO-US020069.

PR 12-NOV-1997; 97US-0065186P.

PR 13-NOV-1997; 97US-0065311P.

PR 24-NOV-1997; 97US-0066770P.

PR 25-FEB-1998; 98US-0075945P.

PR 20-MAR-1998; 98US-0078910P.

PR 28-APR-1998; 98US-0083322P.

PR 07-MAY-1998; 98US-0084600P.

PR 28-MAY-1998; 98US-0087106P.

PR 02-JUN-1998; 98US-0087607P.

PR 02-JUN-1998; 98US-0087607P.

PR 02-JUN-1998; 98US-0087759P.

PR 03-JUN-1998; 98US-0087827P.

PR 04-JUN-1998; 98US-0088021P.

PR 04-JUN-1998; 98US-0088025P.

PR 04-JUN-1998; 98US-0088026P.

PR 04-JUN-1998; 98US-0088029P.

PR 04-JUN-1998; 98US-0088030P.

PR 04-JUN-1998; 98US-0088033P.

PR 04-JUN-1998; 98US-0088326P.

PR 05-JUN-1998; 98US-0088167P.

PR 05-JUN-1998; 98US-0088202P.

PR 05-JUN-1998; 98US-0088212P.

PR 05-JUN-1998; 98US-0088217P.

PR 09-JUN-1998; 98US-0088555P.

PR 10-JUN-1998; 98US-0088734P.

PR 10-JUN-1998; 98US-0088738P.

PR 10-JUN-1998; 98US-0088742P.

PR 10-JUN-1998; 98US-0088810P.

PR 10-JUN-1998; 98US-0088824P.

PR 11-JUN-1998; 98US-0088826P.

PR 11-JUN-1998; 98US-0088858P.

PR 11-JUN-1998; 98US-0088861P.

PR 11-JUN-1998; 98US-0088876P.

PR 12-JUN-1998; 98US-0089105P.

PR 16-JUN-1998; 98US-0089440P.

PR 16-JUN-1998; 98US-0089512P.

PR 16-JUN-1998; 98US-0089514P.

PR 17-JUN-1998; 98US-0089532P.

PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 02-JUN-1999; 99WO-US012252.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 16-DEC-1999; 99WO-US028634.
PR 20-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 28-AUG-2001; 2001US-00941992.

(GETH) GENENTECH INC.

PA Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
XX Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
XX Grimaldi JC, Gurney AL, Kijavini IJ, Napier MA, Pan J, Paoni NF;
XX Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
XX Zhang Z;

XX WPI; 2003-288106/28.
DR P-PSDB; ABU60624.

XX New transmembrane polypeptides and nucleic acids encoding the
PT polypeptides, useful in gene therapy, in chromosome identification, as
PT chromosome markers, or in generating probes.

Claim 2; Fig 329; 650pp; English.

CC The invention discloses isolated PRO secreted/transmembrane polypeptides
CC comprising a sequence without signal peptide and the nucleic acid
CC encoding them. The polypeptides can be used to raise antibodies that
CC specifically bind to the PRO polypeptide, for linking a bioactive

CC molecule to a cell expressing a PRO protein and for modulating at least
CC one biological activity of a cell. The PRO polypeptides or
CC polynucleotides are also useful in gene therapy, in chromosome
CC identification, as chromosome markers, or in generating probes. The PRO
CC polypeptides are useful as molecular markers for protein electrophoresis,
CC and the isolated nucleic acids may be used for recombinantly expressing
CC those markers. The PRO polypeptides and nucleic acids may also be used in
CC tissue typing. Anti-PRO antibodies are useful in diagnostic assays for
CC PRO, and in affinity purification of PRO from recombinant cell culture or
CC natural sources. The sequences presented in ABX90083-ABX90468 are the
CC genes encoding, the primers amplifying and the probes detecting the PRO
CC polynucleotides of the invention. Note: The sequence data for this patent
CC is also available in electronic format from USPTO at
CC seqdata.uspto.gov/sequence.html
XX
SQ

Sequence 2749 BP; 599 A; 811 C; 698 G; 639 T; 0 U; 2 Other;

Query Match 99.9%; Score 2747; DB 7; Length 2749;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY      1 CTCCACGGTGTCCAGGCCCCAGAAATGCGGCTTCTGGTCTGCTATGCGGTTGCGCTGCTG 60
DB      1 CTCCACGGTGTCCAGGCCCCAGAAATGCGGCTTCTGGTCTGCTATGCGGTTGCGCTGCTG 60
QY      61 CTCCACGGTGTATGAAGCCCTGGAGGGCCCCAGAGAAATCAGCGGTTTGAAGGGGACACT 120
DB      61 CTCCACGGTGTATGAAGCCCTGGAGGGCCCCAGAGAAATCAGCGGTTTGAAGGGGACACT 120
QY     121 GTCTCCCTGCAGTGCACTACAGGGAAGAGCTGAGGGAACACCGGAAGTACTGGTGCAAG 180
DB     121 GTCTCCCTGCAGTGCACTACAGGGAAGAGCTGAGGGAACACCGGAAGTACTGGTGCAAG 180
QY     181 AAGGTTGGATCTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 240
DB     181 AAGGTTGGATCTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 240
QY     241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCGCCGAGGAGCTCTCGCTCATTTGTG 300
DB     241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCGCCGAGGAGCTCTCGCTCATTTGTG 300
QY     301 ACCCTGTGGAACCTCAACCTGCAAGAGCTGCGGAGTACTGTGTGGGGTTCGAAAAACGG 360
DB     301 ACCCTGTGGAACCTCAACCTGCAAGAGCTGCGGAGTACTGTGTGGGGTTCGAAAAACGG 360
QY     361 GGGCCCGATGAGTCTTTACTGATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCC 420
DB     361 GGGCCCGATGAGTCTTTACTGATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCC 420
QY     421 TCCCTCTCTCCACCTTCCAGCTCTGGCTTACACAGCGCTGACGCGCCAGGCAAAAGCT 480
DB     421 TCCCTCTCTCCACCTTCCAGCTCTGGCTTACACAGCGCTGACGCGCCAGGCAAAAGCT 480
QY     481 CAGCAAAACCCAGCCCCAGGATTTGACTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 540
DB     481 CAGCAAAACCCAGCCCCAGGATTTGACTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 540
QY     541 AAGCAGGGGAAGACAGGGGCTGAGGCCCCCTCCATTTGCCAGGGACTTCCAGTAGAGGGCAC 600
DB     541 AAGCAGGGGAAGACAGGGGCTGAGGCCCCCTCCATTTGCCAGGGACTTCCAGTAGAGGGCAC 600
QY     601 GAAAGGACTTCTCAGTATACAGAGAACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 660
DB     601 GAAAGGACTTCTCAGTATACAGAGAACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 660
QY     661 AGCTCCCGCCCCCCTGACAGTGGACTTCCACCTCAGCAGAGACACCACTCCAGCTCTC 720
DB     661 AGCTCCCGCCCCCCTGACAGTGGACTTCCACCTCAGCAGAGACACCACTCCAGCTCTC 720
QY     721 AGCAGTGGCAGCTCTAAGCCCAAGGTTGTCCATCCGATGGTCCGCATACCTACTGGCCCCAGTC 780
DB     721 AGCAGTGGCAGCTCTAAGCCCAAGGTTGTCCATCCGATGGTCCGCATACCTACTGGCCCCAGTC 780
```

```
QY      781 CTGTGCTCTGTAGCCTTCTGTAGCCGAGGCTGATCGCCTTCTGTGACGACCACTGCTC 840
DB      781 CTGTGCTCTGTAGCCTTCTGTAGCCGAGGCTGATCGCCTTCTGTGACGACCACTGCTC 840
QY     841 CTGTGAGAAAGGAAGCTCAACAGGCCACGAGACACAGAGGACAGAGGAGTTCTGGCTC 900
DB     841 CTGTGAGAAAGGAAGCTCAACAGGCCACGAGACACAGAGGACAGAGGAGTTCTGGCTC 900
QY     901 TCACGCTTCACTGCGAGGAAAGAACCCCTTCCAGGCCCTCTGAGGGGACGCTGATC 960
DB     901 TCACGCTTCACTGCGAGGAAAGAACCCCTTCCAGGCCCTCTGAGGGGACGCTGATC 960
QY     961 TCGATGCCCTCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
DB     961 TCGATGCCCTCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
QY    1021 TAGGGCAGGAGGCCCTCTGGCCAGGCCAGCAGTGAAGCAGTATGCTGCTGCTGATCAGC 1080
DB    1021 TAGGGCAGGAGGCCCTCTGGCCAGGCCAGCAGTGAAGCAGTATGCTGCTGCTGATCAGC 1080
QY    1081 ACCGATTTCCGAAAGCTTTTCCACTCAGCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT 1140
DB    1081 ACCGATTTCCGAAAGCTTTTCCACTCAGCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT 1140
QY    1141 CTCCCAACCTCCCGAGGCTCTCTCTTGCATGTTCCAGCCTGACCTAGAAAGGCTTTGTC 1200
DB    1141 CTCCCAACCTCCCGAGGCTCTCTCTTGCATGTTCCAGCCTGACCTAGAAAGGCTTTGTC 1200
QY    1201 AGCCCTGGAAGCCAGAGCGGCTGCTTCTTCCGGCTGGAGACTGGGACATCCCTGAT 1260
DB    1201 AGCCCTGGAAGCCAGAGCGGCTGCTTCTTCCGGCTGGAGACTGGGACATCCCTGAT 1260
QY    1261 AGTTTCCACATCCCTGGGACAGGTACAGAGCTGCTGACCTCAGCAGGGCCAGACAAGGCT 1320
DB    1261 AGTTTCCACATCCCTGGGACAGGTACAGAGCTGCTGACCTCAGCAGGGCCAGACAAGGCT 1320
QY    1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACTCTTGGGCCCTCATGCCCCAGTGTG 1380
DB    1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACTCTTGGGCCCTCATGCCCCAGTGTG 1380
QY    1381 GACCTTGCCTTCTCCACCTCCAGACCCCACTTGTCTTCTTCTTCTTCTTCTTCTTCTTCT 1440
DB    1381 GACCTTGCCTTCTCCACCTCCAGACCCCACTTGTCTTCTTCTTCTTCTTCTTCTTCTTCT 1440
QY    1441 TTAGTCCCACGGTCTCTGATCAGCTGGTGTGTAAGAGAGAGCATGCTGGGGTGTGAGACTG 1500
DB    1441 TTAGTCCCACGGTCTCTGATCAGCTGGTGTGTAAGAGAGAGCATGCTGGGGTGTGAGACTG 1500
QY    1501 GGATTCGGCTTCTCTTTGAACCACTGCAATCCAGCCCTTTCAGGAAAGCTGTGAAAAACG 1560
DB    1501 GGATTCGGCTTCTCTTTGAACCACTGCAATCCAGCCCTTTCAGGAAAGCTGTGAAAAACG 1560
QY    1561 TGATTCGGCCCCCAAGACCCCAACCAACCATCTCTGGGCTTGGTGGAGACTGTA 1620
DB    1561 TGATTCGGCCCCCAAGACCCCAACCAACCATCTCTGGGCTTGGTGGAGACTGTA 1620
QY    1621 ATTCTAACCAATGCCAGTGACTGTGCACTTTGAGTTTGAAGGGCCAGTGGGCCCTGATGAAC 1680
DB    1621 ATTCTAACCAATGCCAGTGACTGTGCACTTTGAGTTTGAAGGGCCAGTGGGCCCTGATGAAC 1680
QY    1681 GCTCACAACCTTTCAGCTTAGAGTCTGCAATTTGGGCTGTGAAGCTCTCCACTGCCCCCAAT 1740
DB    1681 GCTCACAACCTTTCAGCTTAGAGTCTGCAATTTGGGCTGTGAAGCTCTCCACTGCCCCCAAT 1740
QY    1741 AGATCTGCTCTGTCTGGGACACAGATCCAGTGGGGAATCCCTCTGAGGGCTGCTAAGTC 1800
DB    1741 AGATCTGCTCTGTCTGGGACACAGATCCAGTGGGGAATCCCTCTGAGGGCTGCTAAGTC 1800
QY    1801 CAGGCTTGGTCAAGTCAAGTGCACATTCAGAGATTAAGCCAGGACCGGACAGAGAGTGG 1860
DB    1801 CAGGCTTGGTCAAGTCAAGTGCACATTCAGAGATTAAGCCAGGACCGGACAGAGAGTGG 1860
QY    1861 TTGCCTTTTNCATTTTGGCCCTCCCTCGNCCATGCTTCTTGTGCTTTTGGAAAAAATGATGAA 1920
```

Db	1861	TTGCTTTTNCATTTGTCCTTCCCTCGNCCATGCGCTTCTTGCTTTGAAAAAATGATGAA	1920
Qy	1921	GAAGAACCTTGGCTCTCTTCTTGTCTGAAAGGGTTACTTGCTTATGGGTTCTGGTGCTA	1980
Db	1921	GAAGAACCTTGGCTCTCTTCTTGTCTGAAAGGGTTACTTGCTTATGGGTTCTGGTGCTA	1980
Qy	1981	GAGAGAAAGTAGAGAACCAAGAGTGCACGTAGTGTCTTAAACAGAGGAGTAGGAAACA	2040
Db	1981	GAGAGAAAGTAGAGAACCAAGAGTGCACGTAGTGTCTTAAACAGAGGAGTAGGAAACA	2040
Qy	2041	GGCGGATACCTGAAGTGACTCGAGTCCAGCCCTCGAGAGGGTGGGGGGTGGTG	2100
Db	2041	GGCGGATACCTGAAGTGACTCGAGTCCAGCCCTCGAGAGGGTGGGGGGTGGTG	2100
Qy	2101	GTAAGTAGCAACAATACTATTTTCTTTTCTTTTCCATTATTTGTTTTTAAAGACAGA	2160
Db	2101	GTAAGTAGCAACAATACTATTTTCTTTTCTTTTCCATTATTTGTTTTTAAAGACAGA	2160
Qy	2161	ATCTGTGTGCTGCCAGCTGGAGTGCAGTGGCAGCATCTGCAAACTCCGCTCTCTGG	2220
Db	2161	ATCTGTGTGCTGCCAGCTGGAGTGCAGTGGCAGCATCTGCAAACTCCGCTCTCTGG	2220
Qy	2221	GTTCAAGTGATTTCTTCTGCTCAGCTCCGAGTGGGATTCACAGCAGCACCACC	2280
Db	2221	GTTCAAGTGATTTCTTCTGCTCAGCTCCGAGTGGGATTCACAGCAGCACCACC	2280
Qy	2281	ACACCTGGCTAAATTTTGTACTTTTAGTAGAGATGGGGTTTCCACCATGTTGGCCAGGCTG	2340
Db	2281	ACACCTGGCTAAATTTTGTACTTTTAGTAGAGATGGGGTTTCCACCATGTTGGCCAGGCTG	2340
Qy	2341	GTCTTGAACCTCTGACCTCAAAATGAGCTCTCTGCTCAGTCTCCCAANTGCCGGGATTA	2400
Db	2341	GTCTTGAACCTCTGACCTCAAAATGAGCTCTCTGCTCAGTCTCCCAANTGCCGGGATTA	2400
Qy	2401	CAGGCATGAGCCACTGTCTGCTGCCCTTATTTCTTTTAAAGTGAATTAAGAGTTGTTTC	2460
Db	2401	CAGGCATGAGCCACTGTCTGCTGCCCTTATTTCTTTTAAAGTGAATTAAGAGTTGTTTC	2460
Qy	2461	AGTATGCAAACTTGGAAAGATGGAGGAGAAAAAGAAAGAAAAAATGTCACCCA	2520
Db	2461	AGTATGCAAACTTGGAAAGATGGAGGAGAAAAAGAAAGAAAAAATGTCACCCA	2520
Qy	2521	TAGTCTCAGCAGACTATCATTTATTTGTTTGTACTTCTTCCACTCTTTTCTTC	2580
Db	2521	TAGTCTCAGCAGACTATCATTTATTTGTTTGTACTTCTTCCACTCTTTTCTTC	2580
Qy	2581	TTACATAATTTCCGGTGTCTTTTACAGAGCAATTTCTGTATATACAACTTTGTA	2640
Db	2581	TTACATAATTTCCGGTGTCTTTTACAGAGCAATTTCTGTATATACAACTTTGTA	2640
Qy	2641	TCTGCTTTTCCACCTTATCGTTCCATCACTTTATTTCCAGCACTTCTCTGTGTTTACA	2700
Db	2641	TCTGCTTTTCCACCTTATCGTTCCATCACTTTATTTCCAGCACTTCTCTGTGTTTACA	2700
Qy	2701	GACCTTTTATAAATAAATGTTTCATCAGCTGCATATAAAAAA 2749	
Db	2701	GACCTTTTATAAATAAATGTTTCATCAGCTGCATATAAAAAA 2749	

RESULT 13

ACD42606

ID ACD42606 standard; cdna; 2749 BP.

XX ACD42606;

XX AC ACD42606;

XX 09-SEP-2003 (first entry)

XX Novel human secreted and transmembrane protein PRO846 CDNA.

XX Human; secreted and transmembrane protein; PRO; virucide; gene therapy;

KW cell death; growth induction cascade; blood coagulation cascade;

KW viral infection; gene; ss.

XX OS	Homo sapiens.
XX PN	US2003050239-A1.
XX PD	13-MAR-2003.
XX PF	15-OCT-2001; 2001US-00978191.
XX PR	17-OCT-1997; 97US-0062250P.
PR	03-NOV-1997; 97US-0064249P.
PR	13-NOV-1997; 97US-0065311P.
PR	21-NOV-1997; 97US-0066364P.
PR	10-MAR-1998; 98US-0077450P.
PR	11-MAR-1998; 98US-0077632P.
PR	11-MAR-1998; 98US-0077641P.
PR	11-MAR-1998; 98US-0077791P.
PR	13-MAR-1998; 98US-0078004P.
PR	17-MAR-1998; 98US-00040220.
PR	20-MAR-1998; 98US-0078886P.
PR	20-MAR-1998; 98US-0078910P.
PR	20-MAR-1998; 98US-0078936P.
PR	20-MAR-1998; 98US-0078939P.
PR	25-MAR-1998; 98US-0079294P.
PR	26-MAR-1998; 98US-0079656P.
PR	27-MAR-1998; 98US-0079663P.
PR	27-MAR-1998; 98US-0079664P.
PR	27-MAR-1998; 98US-0079689P.
PR	27-MAR-1998; 98US-0079728P.
PR	27-MAR-1998; 98US-0079786P.
PR	30-MAR-1998; 98US-0079920P.
PR	30-MAR-1998; 98US-0079923P.
PR	31-MAR-1998; 98US-0080105P.
PR	31-MAR-1998; 98US-0080107P.
PR	31-MAR-1998; 98US-0080165P.
PR	31-MAR-1998; 98US-0080194P.
PR	01-APR-1998; 98US-0080327P.
PR	01-APR-1998; 98US-0080328P.
PR	01-APR-1998; 98US-0080333P.
PR	01-APR-1998; 98US-0080334P.
PR	08-APR-1998; 98US-0081049P.
PR	08-APR-1998; 98US-0081070P.
PR	08-APR-1998; 98US-0081071P.
PR	09-APR-1998; 98US-0081195P.
PR	09-APR-1998; 98US-0081203P.
PR	09-APR-1998; 98US-0081229P.
PR	15-APR-1998; 98US-0081817P.
PR	15-APR-1998; 98US-0081819P.
PR	15-APR-1998; 98US-0081838P.
PR	15-APR-1998; 98US-0081952P.
PR	15-APR-1998; 98US-0081955P.
PR	21-APR-1998; 98US-0082568P.
PR	21-APR-1998; 98US-0082569P.
PR	22-APR-1998; 98US-0082700P.
PR	22-APR-1998; 98US-0082704P.
PR	22-APR-1998; 98US-0082797P.
PR	22-APR-1998; 98US-0082804P.
PR	23-APR-1998; 98US-0082786P.
PR	27-APR-1998; 98US-0083366P.
PR	28-APR-1998; 98US-0083322P.
PR	29-APR-1998; 98US-0083392P.
PR	29-APR-1998; 98US-0083495P.
PR	29-APR-1998; 98US-0083496P.
PR	29-APR-1998; 98US-0083499P.
PR	29-APR-1998; 98US-0083500P.
PR	29-APR-1998; 98US-0083545P.
PR	29-APR-1998; 98US-0083554P.
PR	29-APR-1998; 98US-0083558P.
PR	29-APR-1998; 98US-0083559P.
PR	30-APR-1998; 98US-0083742P.
PR	03-MAY-1998; 98US-0084366P.
PR	06-MAY-1998; 98US-0084414P.

```
PR 06-MAY-1998; 98US-0084441P.
PR 07-MAY-1998; 98US-0084598P.
PR 07-MAY-1998; 98US-0084600P.
PR 07-MAY-1998; 98US-0084627P.
PR 07-MAY-1998; 98US-0084637P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 13-MAY-1998; 98US-0085323P.
PR 13-MAY-1998; 98US-0085338P.
PR 13-MAY-1998; 98US-0085339P.
PR 15-MAY-1998; 98US-0085573P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085689P.
PR 15-MAY-1998; 98US-0085697P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0085704P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086414P.
PR 22-MAY-1998; 98US-0086430P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087106P.
PR 28-MAY-1998; 98US-0087208P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 10-JUL-1998; 98US-0094651P.
PR 11-SEP-1998; 98US-0100038P.
PR 07-OCT-1998; 98US-00168978.
PR 07-OCT-1998; 98WO-US021141.
PR 06-NOV-1998; 98US-00184216.
PR 06-NOV-1998; 98US-00187368.
PR 20-NOV-1998; 98US-0109304P.
PR 20-NOV-1998; 98WO-US024855.
PR 07-DEC-1998; 98US-00202054.
PR 22-DEC-1998; 98US-00218517.
PR 22-DEC-1998; 98US-0113296P.
PR 23-DEC-1998; 98US-0113621P.
PR 05-JAN-1999; 99WO-US000106.
PR 05-MAR-1999; 99US-00254465.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 12-MAR-1999; 99US-00267213.
PR 13-MAR-1999; 99US-0123957P.
PR 23-MAR-1999; 99US-0126773P.
PR 12-APR-1999; 99US-00284291.
PR 21-APR-1999; 99US-0130232P.
PR 26-APR-1999; 99US-0131022P.
PR 28-APR-1999; 99US-0131445P.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99US-0134287P.
PR 10-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 16-JUN-1999; 99US-0139557P.
PR 23-JUN-1999; 99US-0141037P.
PR 07-JUL-1999; 99US-0142680P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.
PR 25-AUG-1999; 99US-00380142.
PR 29-OCT-1999; 99US-0162506P.
PR 30-NOV-1999; 99WO-US028313.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 30-DEC-1999; 99WO-US031243.

PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US0003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000US-00709238.
PR 27-NOV-2000; 2000US-00723749.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001US-00816744.
PR 22-MAR-2001; 2001US-00816920.
PR 22-MAR-2001; 2001WO-US009552.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 25-MAY-2001; 2001US-008517092.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUL-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 30-JUL-2001; 2001US-00918585.
XX
XX (GETH ) GENENTECH INC.
PA
XX
PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;

Query Match 99.9%; Score 2747; DB 7; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCCTCAGGTGTCAGCGGCCAGAAATGCGGCTTCTGGTCTCTGCTATGGGTTCCCTGCTG 60
DB 1 CTCCTCAGGTGTCAGCGGCCAGAAATGCGGCTTCTGGTCTCTGCTATGGGTTCCCTGCTG 60

QY 61 CTCCTCAGGTATGAAGCCCTTGAGGGCCAGAGGAATCAGCGGTTCCGAGGGGACACT 120
DB 61 CTCCTCAGGTATGAAGCCCTTGAGGGCCAGAGGAATCAGCGGTTCCGAGGGGACACT 120

QY 121 GTGTCTCTGCAGTGCACTTACAGGGAAGAGCTCAGGACACCCAGGAAGTACTGGTGAGG 180
DB 121 GTGTCTCTGCAGTGCACTTACAGGGAAGAGCTCAGGACACCCAGGAAGTACTGGTGAGG 180

QY 181 AAGGGTGGGATCTCTTCTCTCTGCTCTGGCACCATTATCAGAAAGAGGCGAG 240
DB 181 AAGGGTGGGATCTCTTCTCTCTGCTCTGGCACCATTATCAGAAAGAGGCGAG 240

QY 241 GAGACAAATGAAGGCGAGGTTGTCATCCGTGACAGCGCCAGAGCTCTCGCTCATTTGTG 300
DB 241 GAGACAAATGAAGGCGAGGTTGTCATCCGTGACAGCGCCAGAGCTCTCGCTCATTTGTG 300

QY 301 ACCCTGTGGAACCTCACTCCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
DB 301 ACCCTGTGGAACCTCACTCCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360

QY 361 GGCCCGGATGAGTCTTTTATCTGATCTCTCTGTTCTCTTTCCAGGACCCCTGCTCTCC 420
```


QY 2581 TTACATAATTTCCTGGTGTCTTTTACAGAGCAATTATCTTGATATACAACTTTGTA 2640
|||||
Db 2581 TTACATAATTTCCTGGTGTCTTTTACAGAGCAATTATCTTGATATACAACTTTGTA 2640
|||||
QY 2641 TCCTGCTTTTCCACCTTATCGTTCCATCATCTTTATTCAGCACTTCTCTGTGTTTACA 2700
|||||
Db 2641 TCCTGCTTTTCCACCTTATCGTTCCATCATCTTTATTCAGCACTTCTCTGTGTTTACA 2700
|||||
QY 2701 GACCTTTTATAATAAATGTTTCATCAGCTGCATATAAAAAAAAAAAAA 2749
|||||
Db 2701 GACCTTTTATAATAAATGTTTCATCAGCTGCATATAAAAAAAAAAAAA 2749
|||||
RESULT 14
ABX64298
ID ABX64298 standard; cDNA; 2749 BP.
XX AC ABX64298;
XX DT 26-FEB-2003 (first entry)
XX DE cDNA encoding human PRO846 polypeptide.
XX KW Human; PRO polypeptide; secreted protein; transmembrane protein;
KW genetic disorder; antibacterial; immunosuppressive; transgenic;
KW gene therapy; gene; ss.
XX OS Homo sapiens.
XX US2002103125-A1.
XX PD 01-AUG-2002.
XX PF 20-NOV-2001; 2001US-00989731.
XX 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97WO-US020069.
PR 12-NOV-1997; 97US-0065186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.
PR 25-FEB-1998; 98US-0075945P.
PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083322P.
PR 07-MAY-1998; 98US-0084500P.
PR 28-MAY-1998; 98US-0087106P.
PR 02-JUN-1998; 98US-0087607P.
PR 02-JUN-1998; 98US-0087609P.
PR 03-JUN-1998; 98US-0087759P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088026P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088030P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088555P.
PR 10-JUN-1998; 98US-0088734P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088742P.
PR 10-JUN-1998; 98US-0088810P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088876P.

PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089588P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 02-JUN-1999; 99WO-US012252.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 06-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 28-AUG-2001; 2001US-00941992.

(GETH) GENENTECH LTD.

PA Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Fong S, Gerber H, Gritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
PI Zhang Z;

XX WPI; 2003-102117/09.
XX P-PSDB; ABU14006.

XX Novel secreted and transmembrane polypeptide for modulating biological
PT activity of cell expressing the polypeptide, identifying agonists or
PT antagonists of polypeptide, and as molecular weight markers.

XX Claim 2; Fig 329; 649pp; English.

XX The present invention relates to the isolation of novel human PRO
CC polypeptides, and the polynucleotide sequences encoding them. The PRO
CC polypeptides are secreted and transmembrane proteins. The PRO
CC polypeptides are useful for detecting other PRO polypeptides, for linking
CC bioactive molecules to cells expressing PRO polypeptides, for modulating
CC biological activities of cells expressing PRO polypeptides, and for
CC identifying agonists or antagonists. The polynucleotide sequences
CC encoding PRO polypeptides are useful as hybridisation probes, in
CC chromosome and gene mapping, in the generation of antisense RNA and DNA,
CC in the preparation of PRO polypeptides, for generating transgenic animals
CC or knockout animals, to construct hybridisation probes for mapping the
CC gene which encodes the PRO polypeptide, and for the genetic analysis of
CC individuals with genetic disorders, in gene therapy, for chromosome
CC identification, as chromosome markers, and for generating probes for PCR,
CC Northern analysis, Southern analysis and Western analysis. The present
CC sequence encodes a human PRO polypeptide of the invention. Note: The
CC sequence data for this patent was obtained in electronic format directly
CC from the USPTO web site at seqdata.uspto.gov/psipdidentry.html
XX
SQ Sequence 2749 BP; 599 A; 811 C; 698 G; 639 T; 0 U; 2 Other;
Query Match 99.9%; Score 2747; DB 7; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CTCCTCAGGTGTCAGCGCCAGAAATGCGGCTTCTGGTCTGCTATGCGGTTGCTGCTG 60
DB 1 CTCCTCAGGTGTCAGCGCCAGAAATGCGGCTTCTGGTCTGCTATGCGGTTGCTGCTG 60
QY 61 CTCCTCAGGTGTCAGCGCCAGAAATGCGGCTTCTGGTCTGCTATGCGGTTGCTGCTG 120
DB 61 CTCCTCAGGTGTCAGCGCCAGAAATGCGGCTTCTGGTCTGCTATGCGGTTGCTGCTG 120
QY 121 GTCTCCTCAGTGCACCTACAGGAGAGCTGAGGAGACCTGAGGAGACCTGAGGAG 180
DB 121 GTCTCCTCAGTGCACCTACAGGAGAGCTGAGGAGACCTGAGGAGACCTGAGGAG 180
QY 181 AAGGTGGGATCTCTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
DB 181 AAGGTGGGATCTCTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
QY 241 GAGCAATGAGGAGGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
DB 241 GAGCAATGAGGAGGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
QY 301 ACCCTGTGAACTCCTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
DB 301 ACCCTGTGAACTCCTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
QY 361 GGGCCGATGAGTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
DB 361 GGGCCGATGAGTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
QY 421 TCCCTTCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT 480
DB 421 TCCCTTCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT 480
QY 481 CAGCAACCCAGCCCGGAGGAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 540
DB 481 CAGCAACCCAGCCCGGAGGAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 540
QY 541 AAGCAGGGGAGACAGGGGCTGAGGGCCCTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 600
DB 541 AAGCAGGGGAGACAGGGGCTGAGGGCCCTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 600
QY 601 GAAAGGACTTCTCAGTACACAGGAACTTCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT 660
DB 601 GAAAGGACTTCTCAGTACACAGGAACTTCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT 660
QY 661 AGCTCCGCCCCCTCAGTACAGGAGTCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT 720
DB 661 AGCTCCGCCCCCTCAGTACAGGAGTCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT 720

QY 721 AGCAGTGGCAGCTCTAAGCCACAGGGTGTCCATCCGATGTCTCCGATACCTGAGCCAGTC 780
DB 721 AGCAGTGGCAGCTCTAAGCCACAGGGTGTCCATCCGATGTCTCCGATACCTGAGCCAGTC 780
QY 781 CTGGTCTGCTGAGCCCTTCTGTCAGCGGAGGCTGATCCGCTTCTGACGACCACTGCTC 840
DB 781 CTGGTCTGCTGAGCCCTTCTGTCAGCGGAGGCTGATCCGCTTCTGACGACCACTGCTC 840
QY 841 CTGTGAGAAAGGAAGCTCAACAGGCGCACGAGGACACAGAGGAACTGCTGCTGCTC 900
DB 841 CTGTGAGAAAGGAAGCTCAACAGGCGCACGAGGACACAGAGGAACTGCTGCTGCTC 900
QY 901 TCACGTTGATCTCGGAGGAAAGGAGCCCTTCCAGGCGCTTCCAGGCGCTGAGGGGAGCTGATC 960
DB 901 TCACGTTGATCTCGGAGGAAAGGAGCCCTTCCAGGCGCTTCCAGGCGCTGAGGGGAGCTGATC 960
QY 961 TCGATGCTTCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTGCTCAGCG 1020
DB 961 TCGATGCTTCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTGCTCAGCG 1020
QY 1021 TAGGGCAGGAGGCGCTCTCCCTGGCCAGGCGCAGCAGTGAAGCAGTATGGCTGGCTGATCAGC 1080
DB 1021 TAGGGCAGGAGGCGCTCTCCCTGGCCAGGCGCAGCAGTGAAGCAGTATGGCTGGCTGATCAGC 1080
QY 1081 ACCGATTTCCGAAAGCTTTTCCACCTCAGCCTCAGAGTCCAGGCTGCCCGGACTCCAGGGCT 1140
DB 1081 ACCGATTTCCGAAAGCTTTTCCACCTCAGCCTCAGAGTCCAGGCTGCCCGGACTCCAGGGCT 1140
QY 1141 CTCCTCAGCTTCCCGAGGCTCTCTTCTGATGCTTCCAGCTGACCTAGAGGCTTGTGTC 1200
DB 1141 CTCCTCAGCTTCCCGAGGCTCTCTTCTGATGCTTCCAGCTGACCTAGAGGCTTGTGTC 1200
QY 1201 AGCCTTGGAGCCAGAGCGGCTTCTGCTTCTCCGCTGAGAGCTGGAGCATCCCTGAT 1260
DB 1201 AGCCTTGGAGCCAGAGCGGCTTCTGCTTCTCCGCTGAGAGCTGGAGCATCCCTGAT 1260
QY 1261 AGCTTTCATCTCCCTGGGAGAGTACAGGCTGCTGAGCTTCAAGGAGGCGCAGCAAGGCT 1320
DB 1261 AGCTTTCATCTCCCTGGGAGAGTACAGGCTGCTGAGCTTCAAGGAGGCGCAGCAAGGCT 1320
QY 1321 CAGTGAATCTGGTCTGAGTTTCAATCTGCCAGGAACTCTCCGGGCTCATGCCAGTCTCG 1380
DB 1321 CAGTGAATCTGGTCTGAGTTTCAATCTGCCAGGAACTCTCTGGGCTCATGCCAGTCTCG 1380
QY 1381 GACCTGCTTCTCCCTCCTCAGAGCCCACTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1440
DB 1381 GACCTGCTTCTCCCTCCTCAGAGCCCACTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1440
QY 1441 TTAGTCCCAAGGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
DB 1441 TTAGTCCCAAGGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
QY 1501 GGATTTGGCTTCTCTTTGAAACCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1560
DB 1501 GGATTTGGCTTCTCTTTGAAACCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1560
QY 1561 TGATTTCTGGCCCAACAGAGCCCACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1620
DB 1561 TGATTTCTGGCCCAACAGAGCCCACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1620
QY 1621 ATTCTAACCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1680
DB 1621 ATTCTAACCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1680
QY 1681 GCTCAGACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1740
DB 1681 GCTCAGACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1740
QY 1741 AGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1800
DB 1741 AGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1800

```
QY 1801 CAGGCTTGGTCTAGGTGAGTGCACATGTCAGGATAAGCCAGGACCGGCACAGAGTGG 1860
Db |||||||
QY 1801 CAGGCTTGGTCTAGGTGAGTGCACATGTCAGGATAAGCCAGGACCGGCACAGAGTGG 1860
Db |||||||
QY 1861 TTGCTTTTNCATTTGCTTCCCTCCCTGNCCTAGCTTCTTGGCTTTTGGAAAAATGATGA 1920
Db |||||||
QY 1861 TTGCTTTTNCATTTGCTTCCCTCCCTGNCCTAGCTTCTTGGCTTTTGGAAAAATGATGA 1920
Db |||||||
QY 1921 GAAAACTTTGGCTCTCTTCTTGTCTGGAAGGGTTACTTTCCTATGGTTCCTGCTGGCTA 1980
Db |||||||
QY 1921 GAAAACTTTGGCTCTCTTCTTGTCTGGAAGGGTTACTTTCCTATGGTTCCTGCTGGCTA 1980
Db |||||||
QY 1981 GAGAGAAAAGTAGAAAAACAGAGTGCACGTAGTGTCTTAACACAGAGGAGAGTAGGAACA 2040
Db |||||||
QY 1981 GAGAGAAAAGTAGAAAAACAGAGTGCACGTAGTGTCTTAACACAGAGGAGAGTAGGAACA 2040
Db |||||||
QY 2041 GGGCGGATACCTGAAGGTGACTCCGAGTCCAGCCCTCGAGAGGGGTCTGGGGGTGGTG 2100
Db |||||||
QY 2041 GGGCGGATACCTGAAGGTGACTCCGAGTCCAGCCCTCGAGAGGGGTCTGGGGGTGGTG 2100
Db |||||||
QY 2101 GTAAAGTAGCACAACTACTATTTTCTTTTCTTTTCCATTATTTGTTTTTAAAGACAGA 2160
Db |||||||
QY 2101 GTAAAGTAGCACAACTACTATTTTCTTTTCTTTTCCATTATTTGTTTTTAAAGACAGA 2160
Db |||||||
QY 2161 ATCTCGTGTCTGCTGCCAGCTGGAGTGCAGTGGCAGATCTGCCAACTCCGCTCTCTGG 2220
Db |||||||
QY 2161 ATCTCGTGTCTGCTGCCAGCTGGAGTGCAGTGGCAGATCTGCCAACTCCGCTCTCTGG 2220
Db |||||||
QY 2221 GTTCAAGTAGTCTTCTGCTCAGCTCCGAGTAGCTGGGATTCAGGACGACACACC 2280
Db |||||||
QY 2221 GTTCAAGTAGTCTTCTGCTCAGCTCCGAGTAGCTGGGATTCAGGACGACACACC 2280
Db |||||||
QY 2281 ACACCTGGCTTAATTTTGTACTTTTGTAGTAGAGTGGGTTTACCATGTTGGCCAGGCTG 2340
Db |||||||
QY 2281 ACACCTGGCTTAATTTTGTACTTTTGTAGTAGAGTGGGTTTACCATGTTGGCCAGGCTG 2340
Db |||||||
QY 2341 GTCTTGAACCTCTGACCTCAAAATGAGCTCTCTGCTTCCAGTCTCCCAAATTTGCCGGGATTA 2400
Db |||||||
QY 2401 CAGGCATGAGCCACTGTGTCTGGCCCTATTTCTTTTAAAGTGAATTAAGAGTTGTTTC 2460
Db |||||||
QY 2401 CAGGCATGAGCCACTGTGTCTGGCCCTATTTCTTTTAAAGTGAATTAAGAGTTGTTTC 2460
Db |||||||
QY 2461 AGTATGAAAACCTTGGAAAGTGGAGAGAAAAGAAAAGAAAAGAAAATGTCAACCCA 2520
Db |||||||
QY 2461 AGTATGAAAACCTTGGAAAGTGGAGAGAAAAGAAAAGAAAAGAAAATGTCAACCCA 2520
Db |||||||
QY 2521 TAGTCTCACCAGAGACTATCAATTAATTTGTTTTGTTGTACTTCTCTCCACTCTTTTCTTC 2580
Db |||||||
QY 2521 TAGTCTCACCAGAGACTATCAATTAATTTGTTTTGTTGTACTTCTCTCCACTCTTTTCTTC 2580
Db |||||||
QY 2581 TTCAATAAATTTGCGGTGTTCTTTTACAGAGCAATTAATCTTGTAATACAACTTTGTA 2640
Db |||||||
QY 2581 TTCAATAAATTTGCGGTGTTCTTTTACAGAGCAATTAATCTTGTAATACAACTTTGTA 2640
Db |||||||
QY 2641 TCTGCTCTTTTCCACTTATCTGTTCCATCACTTTATTTCCAGCACTTCTCTGTTTGTACA 2700
Db |||||||
QY 2641 TCTGCTCTTTTCCACTTATCTGTTCCATCACTTTATTTCCAGCACTTCTCTGTTTGTACA 2700
Db |||||||
QY 2701 GACCTTTTATAAATAAATGTTTCATCAGCTGCATATAAAAAA 2749
Db |||||||
QY 2701 GACCTTTTATAAATAAATGTTTCATCAGCTGCATATAAAAAA 2749
Db |||||||
```

RESULT 15

ACA67186

ID ACA67186 standard; cdna; 2749 BP.

XX

AC ACA67186;

XX

DT 23-JUN-2003 (first entry)

XX

cDNA encoding human PRO polypeptide #193.

Human; PRO polypeptide; secreted and transmembrane protein;
anti-PRO antibody; diagnostic assay; gene expression; diabetes;
bone disorder; cartilage disorder; rheumatoid arthritis; obesity;
sports injury; osteoarthritis; hyper-insulinaemia; hypo-insulinaemia;
hearing loss; coagulation disorder; stroke; heart attack; cardiac;
antidiabetic; anorectic; vulnary; antiarthritic; osteopathic;
antirheumatic; auditory; cerebroprotective; angiogenic; gene; ss.

Homo sapiens.

US2003004311-AL.

02-JAN-2003.

19-DEC-2001; 2001US-00028072.

18-JUN-1997; 97US-0049911P.

26-AUG-1997; 97US-0056974P.

17-SEP-1997; 97US-0059113P.

17-SEP-1997; 97US-0059115P.

17-SEP-1997; 97US-0059117P.

17-SEP-1997; 97US-0059122P.

18-SEP-1997; 97US-0059263P.

19-SEP-1997; 97US-0059352P.

19-SEP-1997; 97US-0059588P.

24-SEP-1997; 97US-0059836P.

17-OCT-1997; 97US-0062250P.

17-OCT-1997; 97US-0062285P.

17-OCT-1997; 97US-0062816P.

24-OCT-1997; 97US-0063045P.

24-OCT-1997; 97US-0063082P.

24-OCT-1997; 97US-0063127P.

27-OCT-1997; 97US-0063327P.

27-OCT-1997; 97US-0063329P.

28-OCT-1997; 97US-0063550P.

28-OCT-1997; 97US-0063561P.

29-OCT-1997; 97US-0063704P.

29-OCT-1997; 97US-0063733P.

29-OCT-1997; 97US-0063735P.

29-OCT-1997; 97US-0063738P.

03-NOV-1997; 97US-0064248P.

07-NOV-1997; 97US-0064809P.

12-NOV-1997; 97US-0065186P.

17-NOV-1997; 97US-0065846P.

21-NOV-1997; 97US-0066364P.

24-NOV-1997; 97US-0066453P.

24-NOV-1997; 97US-0066511P.

24-NOV-1997; 97US-0066770P.

11-DEC-1997; 97US-0069212P.

11-DEC-1997; 97US-0069278P.

11-DEC-1997; 97US-0069334P.

16-DEC-1997; 97US-0069694P.

23-JAN-1998; 98US-0072320P.

04-FEB-1998; 98US-0073612P.

09-FEB-1998; 98US-0074086P.

09-FEB-1998; 98US-0074092P.

12-MAR-1998; 98US-0077791P.

20-MAR-1998; 98US-0078910P.

25-MAR-1998; 98US-0079294P.

27-MAR-1998; 98US-0079663P.

31-MAR-1998; 98US-0079728P.

12-JUN-1998; 98US-0080165P.

14-JUL-1998; 98US-008012456.

28-AUG-1998; 98US-008014552.

10-SEP-1998; 98US-008017888.

14-SEP-1998; 98US-008018824.

14-SEP-1998; 98US-008019093.

PR 14-SEP-1998; 98WO-US019094.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 29-OCT-1998; 98WO-US022991.
PR 29-OCT-1998; 98WO-US022992.
PR 20-NOV-1998; 98WO-US024855.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 20-APR-1999; 99WO-US008615.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 01-SEP-1999; 99WO-US020111.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 05-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005746.
PA (GETH) GENENTECH INC.
XX Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX
DR WPI; 2003-352836/33.
DR P-PSDB; ABU81062.
XX
PT New isolated PRO polypeptide useful for treating diabetes, rheumatoid
PT arthritis, sports injuries, obesity, hearing loss in mammals, stroke, or
PT heart attack.
XX
PS Claim 2; Fig 385; 643pp; English.
XX
CC The present invention relates to the isolation of novel human PRO
CC polypeptides, and the polynucleotide sequences encoding them. The PRO
CC polypeptides are secreted and transmembrane proteins. The PRO
CC polypeptides and polynucleotides are useful for preparing a medicament
CC useful in the treatment of diabetes, bone and/or cartilage disorders
CC (e.g. rheumatoid arthritis, sports injuries, osteoarthritis), obesity,
CC hyper- or hypo-insulinaemia, hearing loss, and coagulation disorders
CC (e.g. stroke, heart attack). Anti-PRO antibodies are useful in diagnostic
CC assays for PRO, by detecting its expression in specific cells, tissues or
CC serum, and for affinity purification of PRO from recombinant cell culture
CC or natural sources. ACN6994-ACN67288 represent cDNA sequences encoding
CC the human PRO polypeptides of the invention. Note: The sequence data for

CC this patent was obtained in electronic format directly from the USPTO web
CC site at seqdata.uspto.gov/psipspidentry.html
XX
SQ Sequence 2749 BP; 599 A; 811 C; 698 G; 639 T; 0 U; 2 Other;
Query Match 99.9%; Score 2747; DB 7; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 CTCCTCAGGTGTCTCAGCGCCAGAAATCGCGCTTCTGCTCTCTGCTATGGGGTTGCTGCTG 60
Db 1 CTCCTCAGGTGTCTCAGCGCCAGAAATCGCGCTTCTGCTCTCTGCTATGGGGTTGCTGCTG 60
Qy 61 CTCCTCAGGTGTATGAAGCCCTTGAGGGCCAGAGAAATCAGCGGTTTCGAGGGGACACT 120
Db 61 CTCCTCAGGTGTATGAAGCCCTTGAGGGCCAGAGAAATCAGCGGTTTCGAGGGGACACT 120
Qy 121 GTGTCCCTGCAGTGCACCTACAGGGAGAGCTGAGGACACACCGGAAGTACTGTGCGAGG 180
Db 121 GTGTCCCTGCAGTGCACCTACAGGGAGAGCTGAGGACACACCGGAAGTACTGTGCGAGG 180
Qy 181 AAGGGTGGGATCTCTTCTCTCTGCTGCTGCGACCATCTATGACAGAGAGAGGCGCAG 240
Db 181 AAGGGTGGGATCTCTTCTCTCTGCTGCTGCGACCATCTATGACAGAGAGAGGCGCAG 240
Qy 241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCGCCAGGAGCTCTCGCTCATTTGTG 300
Db 241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCGCCAGGAGCTCTCGCTCATTTGTG 300
Qy 301 ACCCTGTGGAACTCTACCCCTGCAGAGCGCTGGGGAGTACTGTGTGGGGTCGAAAAAGG 360
Db 301 ACCCTGTGGAACTCTACCCCTGCAGAGCGCTGGGGAGTACTGTGTGGGGTCGAAAAAGG 360
Qy 361 GGCCCGCATGAGTCTTTACTGATCTCTCTGCTGCTCTTTCAGGACCTCTGCTCTCTCCC 420
Db 361 GGCCCGCATGAGTCTTTACTGATCTCTCTGCTGCTCTTTCAGGACCTCTGCTCTCTCCC 420
Qy 421 TCCCTTTCTCCACTTCCAGCTCTGGGTACAACAGCGCTGACGCCCAAGGCAAGGCT 480
Db 421 TCCCTTTCTCCACTTCCAGCTCTGGGTACAACAGCGCTGACGCCCAAGGCAAGGCT 480
Qy 481 CAGCAAAACCCAGCGCCCGGCTGAGGCTTGAATTCCTCTCTGGGTCTTACCGGGCAGCCAC 540
Db 481 CAGCAAAACCCAGCGCCCGGCTGAGGCTTGAATTCCTCTCTGGGTCTTACCGGGCAGCCAC 540
Qy 541 AAGCAGGGGAAGACAGGGGCTGAGGCTTGAATTCCTCTCTGGGTCTTACCGGGCAGCCAC 600
Db 541 AAGCAGGGGAAGACAGGGGCTGAGGCTTGAATTCCTCTCTGGGTCTTACCGGGCAGCCAC 600
Qy 601 GAAAGGACTTCTCAGTACACAGGAACTCTCTCCTCACCCAGCGACCTCTCTCTCTGCGAGG 660
Db 601 GAAAGGACTTCTCAGTACACAGGAACTCTCTCCTCACCCAGCGACCTCTCTCTCTGCGAGG 660
Qy 661 AGCTCCGCGCCCGCTTCTGTCAGCTGAGCTTCACTCAGCAGAGGACACAGCTCAGCTCTC 720
Db 661 AGCTCCGCGCCCGCTTCTGTCAGCTGAGCTTCACTCAGCAGAGGACACAGCTCAGCTCTC 720
Qy 721 AGCAGTGGCAGCTTAAAGCCCGGGTGTCCATCCGATGTTCGCGATACCTGAGGCGGAGTC 780
Db 721 AGCAGTGGCAGCTTAAAGCCCGGGTGTCCATCCGATGTTCGCGATACCTGAGGCGGAGTC 780
Qy 781 CTGGTGTCTGAGCCCTTCTGTCAGCGCGCAGGGCTGATCGCTTCTGTCAGCGACCTGCTC 840
Db 781 CTGGTGTCTGAGCCCTTCTGTCAGCGCGCAGGGCTGATCGCTTCTGTCAGCGACCTGCTC 840
Qy 841 CTGTGAGAAAGGAAGCTCAAGGGCCAGAGACACAGAGGACAGAGAGTTCTGCTC 900
Db 841 CTGTGAGAAAGGAAGCTCAAGGGCCAGAGACACAGAGGACAGAGAGTTCTGCTC 900
Qy 901 TCACGCTTGAAGTCTGAGGAGGAAAGGAGCCCTTCCAGGCCCTTCCAGGGGAGCTGATC 960
Db 901 TCACGCTTGAAGTCTGAGGAGGAAAGGAGCCCTTCCAGGCCCTTCCAGGGGAGCTGATC 960

Qy	961	TCGATGCTCCCTCCACACATCTGAGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG	1020
Db	961	TCGATGCTCCCTCCACACATCTGAGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG	1020
Qy	1021	TAGGGCAGGAGGCCCTCTGGCCAGGCCAGCAGTGAAGCAGTATGGCTGGCTCGATCAGC	1080
Db	1021	TAGGGCAGGAGGCCCTCTGGCCAGGCCAGCAGTGAAGCAGTATGGCTGGCTCGATCAGC	1080
Qy	1081	ACCGATTCCCGAAGCTTTCCACCTCAGCCTCAGAGTCCAGCTGCGCCGGACTCCAGGGCT	1140
Db	1081	ACCGATTCCCGAAGCTTTCCACCTCAGCCTCAGAGTCCAGCTGCGCCGGACTCCAGGGCT	1140
Qy	1141	CTCCCCACCTCCCGAGGCTCTCCTCTTGATGTTCCAGCTGACCTAGAAAGCGTTTGTCT	1200
Db	1141	CTCCCCACCTCCCGAGGCTCTCCTCTTGATGTTCCAGCTGACCTAGAAAGCGTTTGTCT	1200
Qy	1201	AGCCCTGGAGCCCAGAGGGTGGCTTGTCTTCCGGCTGGAGACTGGGACATCCCTGAT	1260
Db	1201	AGCCCTGGAGCCCAGAGGGTGGCTTGTCTTCCGGCTGGAGACTGGGACATCCCTGAT	1260
Qy	1261	AGGTTCACTCCCTGGGCAGAGTACCAAGGCTGCTGACCCCTCAGCAGGGCCAGACAAGGCT	1320
Db	1261	AGGTTCACTCCCTGGGCAGAGTACCAAGGCTGCTGACCCCTCAGCAGGGCCAGACAAGGCT	1320
Qy	1321	CAGTGGATCTGCTGTGATTTCAATCTGCCAGGAACCTCTGGGCTCATGCCAGTGTCTG	1380
Db	1321	CAGTGGATCTGCTGTGATTTCAATCTGCCAGGAACCTCTGGGCTCATGCCAGTGTCTG	1380
Qy	1381	GACCTGGCTTCTCCACCTCAGACGCCACCTTGTCTTCCCTCCCTGGGCTCTCAGAC	1440
Db	1381	GACCTGGCTTCTCCACCTCAGACGCCACCTTGTCTTCCCTCCCTGGGCTCTCAGAC	1440
Qy	1441	TTAGTCCACAGGTCCTTGGCATCAGCTGCTGATGAAGAGGAGCATGCTGGGTGAGACTG	1500
Db	1441	TTAGTCCACAGGTCCTTGGCATCAGCTGCTGATGAAGAGGAGCATGCTGGGTGAGACTG	1500
Qy	1501	GGATTCTGGCTTCTTTTGAACCACTGCACTCAGCCCTTCAGGAAGCTGTGAAAAACG	1560
Db	1501	GGATTCTGGCTTCTTTTGAACCACTGCACTCAGCCCTTCAGGAAGCTGTGAAAAACG	1560
Qy	1561	TGATTCTGGCCCAACAGAGCCACCAAAACCATCTCTGGGCTTGGTGCAGGACTCTGA	1620
Db	1561	TGATTCTGGCCCAACAGAGCCACCAAAACCATCTCTGGGCTTGGTGCAGGACTCTGA	1620
Qy	1621	ATTCTTAAATGCCAGTGACTGTCGACTTGAAGTTGAGGGCCAGTGGGCTGTATGAAC	1680
Db	1621	ATTCTTAAATGCCAGTGACTGTCGACTTGAAGTTGAGGGCCAGTGGGCTGTATGAAC	1680
Qy	1681	GCTCACACCCCTCAGCTTAGAGTCTGCATTTGGGCTGTGACGTCTCCACTGCCCAAT	1740
Db	1681	GCTCACACCCCTCAGCTTAGAGTCTGCATTTGGGCTGTGACGTCTCCACTGCCCAAT	1740
Qy	1741	AGATCTGCTGTCTGGGACACAGATCCAGTGGGACTTCCCTGAGGCTTGTATGTC	1800
Db	1741	AGATCTGCTGTCTGGGACACAGATCCAGTGGGACTTCCCTGAGGCTTGTATGTC	1800
Qy	1801	CAGGCTTGGTCAGGTGACATTCGAGGATAAGCCAGAGCCGGCACAGAGTGG	1860
Db	1801	CAGGCTTGGTCAGGTGACATTCGAGGATAAGCCAGAGCCGGCACAGAGTGG	1860
Qy	1861	TTGCTTTNCCATTGGCCCTCCCTGGNCCATGCCTTCTTGCTTTGAAAAAATGATGA	1920
Db	1861	TTGCTTTNCCATTGGCCCTCCCTGGNCCATGCCTTCTTGCTTTGAAAAAATGATGA	1920
Qy	1921	GAATACTTGGCTCTTCTTGTCTGAAAGGGTTACTTTGGCTATGGTTCTGGTGCTA	1980
Db	1921	GAATACTTGGCTCTTCTTGTCTGAAAGGGTTACTTTGGCTATGGTTCTGGTGCTA	1980
Qy	1981	GAGAGAAAGTAGAACCAGGTGCAGTAGGTGTCTTACACAGAGGAGTAGGAACA	2040
Db	1981	GAGAGAAAGTAGAACCAGGTGCAGTAGGTGTCTTACACAGAGGAGTAGGAACA	2040
Qy	2041	GGGGGATACCTGAAGGTGACTCCGAGTCCAGCCCTTCGAGAGAGGGGTGGGGGTGGT	2100

Search completed: September 13, 2004, 14:40:42
Job time : 1034 secs

Result No.	Query			DB	ID	Description	
	Score	Match	Length				
C	1	216.2	7.9	392000	4	US-10-027-983-11	Sequence 11, Appl
	2	216	7.9	4848	4	US-09-435-739-42	Sequence 42, Appl
	3	214.8	7.8	22481	4	US-08-367-841A-43	Sequence 43, Appl
	4	214.8	7.8	22481	5	PCR-US95-07201-43	Sequence 43, Appl
	5	214.8	7.8	22484	4	US-09-875-223-2	Sequence 2, Appl
	6	214.8	7.8	22484	4	US-08-875-114-2	Sequence 2, Appl
	7	214.6	7.8	14581	4	US-08-520-373D-4	Sequence 4, Appl
	8	213	7.7	13865	3	US-09-009-217-11	Sequence 11, Appl
	9	213	7.7	13865	3	US-09-009-656-11	Sequence 11, Appl
	10	209.8	7.6	44848	4	US-09-435-739-42	Sequence 42, Appl
C	11	209.2	7.6	87350	3	US-08-781-891-79	Sequence 79, Appl
	12	209.2	7.6	87350	4	US-09-618-166-79	Sequence 79, Appl
	13	209.2	7.6	87543	4	US-09-791-211-3	Sequence 3, Appl
	14	207.8	7.6	1701	3	US-09-078-294-9	Sequence 9, Appl
	15	207.8	7.6	53332	4	US-09-801-861-3	Sequence 3, Appl
	16	207.4	7.5	4823	2	US-08-457-254-5	Sequence 5, Appl
	17	207.4	7.5	4823	2	US-08-484-257-20	Sequence 20, Appl
	18	207.4	7.5	4823	3	US-08-999-927-5	Sequence 5, Appl
	19	207.4	7.5	4823	4	US-08-461-819-5	Sequence 5, Appl
	20	207.4	7.5	4823	5	PCR-US94-08806-28	Sequence 28, Appl
C	21	207.4	7.5	4823	5	PCR-US95-01829-5	Sequence 5, Appl
	22	207.4	7.5	4823	5	PCR-US95-16626-5	Sequence 5, Appl
	23	206.8	7.5	21784	4	US-09-820-002-3	Sequence 3, Appl
	24	206.6	7.5	18853	4	US-09-820-005-3	Sequence 3, Appl
	25	206.6	7.5	55298	4	US-09-491-356C-1	Sequence 1, Appl
	26	205.8	7.5	2758	4	US-09-620-312D-884	Sequence 884, Appl
	27	205.6	7.5	246240	2	US-08-724-394A-20	Sequence 20, Appl

101	197	7.2	18554	4	US-09-811-825A-3	Sequence 3, Appli	c 174	191.4	7.0	15297	4	US-09-817-180-3	Sequence 3, Appli
102	197	7.2	111282	3	US-09-754-250-3	Sequence 3, Appli	c 175	191.4	7.0	15297	4	US-10-003-295-3	Sequence 3, Appli
c 103	197	7.2	176373	3	US-09-128-155-17	Sequence 17, Appl	c 176	191.2	7.0	2061	2	US-08-960-022-11	Sequence 11, Appl
c 104	196.8	7.2	500	4	US-09-621-976-15608	Sequence 15608, A	c 177	191.2	7.0	3683	4	US-09-844-634-3	Sequence 3, Appli
c 105	196.8	7.2	510	4	US-09-621-976-9306	Sequence 9306, App	c 178	191.2	7.0	3683	4	US-09-968-455-1	Sequence 1, Appli
c 106	196.8	7.2	3027	4	US-09-620-312D-563	Sequence 563, App	c 179	191.2	7.0	4736	4	US-09-526-193A-15	Sequence 15, Appl
c 107	196.8	7.2	48763	4	US-09-916-204-3	Sequence 3, Appli	c 180	191.2	7.0	6218	4	US-09-023-655-1203	Sequence 1203, Ap
c 108	196.6	7.2	282	1	US-08-133-629-8	Sequence 8, Appli	c 181	191	6.9	1430	4	US-09-489-847-39	Sequence 39, Appl
c 109	196.6	7.2	45716	4	US-08-965-048-5	Sequence 5, Appli	c 182	191	6.9	75395	4	US-09-984-890-3	Sequence 3, Appli
c 110	196.6	7.2	45989	4	US-08-965-048-6	Sequence 6, Appli	c 183	190.8	6.9	148567	4	US-09-801-876B-3	Sequence 3, Appli
c 111	196.6	7.2	75395	4	US-09-984-890-3	Sequence 3, Appli	c 184	190.8	6.9	148567	4	US-10-254-869-3	Sequence 3, Appli
c 112	196.4	7.1	6669	3	US-09-212-971-5	Sequence 5, Appli	c 185	190.6	6.9	1001	4	US-09-671-317-238	Sequence 238, App
c 113	196.4	7.1	6669	3	US-08-800-929A-5	Sequence 5, Appli	c 186	190.6	6.9	1001	4	US-09-671-317-238	Sequence 239, App
c 114	196.4	7.1	6669	4	US-09-617-053A-5	Sequence 5, Appli	c 187	190.6	6.9	1043	4	US-09-165-868-4	Sequence 4, Appli
c 115	196.4	7.1	6669	4	US-09-672-177-230	Sequence 230, App	c 188	190.6	6.9	1601	4	US-09-016-434-1218	Sequence 1218, Ap
c 116	196.4	7.1	8453	3	US-09-167-681-45	Sequence 45, Appl	c 189	190.6	6.9	1601	4	US-09-023-655-1122	Sequence 1122, Ap
c 117	196.4	7.1	35060	3	US-08-814-095-7	Sequence 7, Appli	c 190	190.6	6.9	19736	4	US-09-740-035-3	Sequence 3, Appli
c 118	196.2	7.1	4668	3	US-09-045-301-1	Sequence 1, Appli	c 191	190.6	6.9	21784	4	US-09-820-002-3	Sequence 3, Appli
c 119	195.8	7.1	1001	4	US-09-671-317-457	Sequence 457, App	c 192	190.6	6.9	41684	4	US-09-536-059-1	Sequence 1, Appli
c 120	195.8	7.1	20303	1	US-08-370-975B-6	Sequence 6, Appli	c 193	190.6	6.9	43950	4	US-09-735-934A-3	Sequence 3, Appli
c 121	195.8	7.1	26764	1	US-08-370-975B-1	Sequence 1, Appli	c 194	190.6	6.9	43950	4	US-10-060-332-3	Sequence 3, Appli
c 122	195.8	7.1	81001	4	US-09-750-580-1	Sequence 1, Appli	c 195	190.4	6.9	444	4	US-09-621-976-12675	Sequence 12675, A
c 123	195.4	7.1	42571	4	US-09-810-347-3	Sequence 3, Appli	c 196	190.4	6.9	43089	4	US-09-292-542A-1	Sequence 1, Appli
c 124	195.4	7.1	80246	3	US-09-078-294-4	Sequence 4, Appli	c 197	190.2	6.9	601	4	US-09-820-002-8	Sequence 8, Appli
c 125	195.4	7.1	392000	4	US-10-027-983-11	Sequence 11, Appl	c 198	190	6.9	1189	4	US-09-369-247-22	Sequence 22, Appl
c 126	195	7.1	63000	4	US-09-780-172-18	Sequence 18, Appl	c 199	190	6.9	55298	4	US-09-491-356C-1	Sequence 1, Appli
c 127	194.8	7.1	1855	4	US-09-023-655-1380	Sequence 1380, Ap	c 200	190	6.9	72604	4	US-09-268-992-7	Sequence 7, Appli
c 128	194.6	7.1	68804	4	US-09-740-041-3	Sequence 3, Appli	c 201	190	6.9	72604	4	US-09-657-474-7	Sequence 7, Appli
c 129	194.6	7.1	99500	4	US-09-798-096-10	Sequence 10, Appl	c 202	189.8	6.9	374	3	US-09-385-982-135	Sequence 135, App
c 130	194.6	7.1	152331	3	US-09-128-155-16	Sequence 16, Appl	c 203	189.8	6.9	1154	4	US-09-539-333D-37	Sequence 37, Appl
c 131	194.4	7.1	112132	4	US-09-741-150-3	Sequence 3, Appli	c 204	189.8	6.9	2426	4	US-09-439-313-470	Sequence 470, App
c 132	194.4	7.1	112132	4	US-10-160-187-3	Sequence 3, Appli	c 205	189.8	6.9	2426	4	US-09-352-616A-470	Sequence 470, App
c 133	194.2	7.1	283	4	US-08-579-445-26	Sequence 26, Appl	c 206	189.8	6.9	2426	4	US-09-636-215-470	Sequence 470, App
c 134	194.2	7.1	84495	4	US-09-797-906-3	Sequence 3, Appli	c 207	189.8	6.9	2426	4	US-09-685-166A-470	Sequence 470, App
c 135	194	7.1	46718	4	US-09-816-093-3	Sequence 3, Appli	c 208	189.8	6.9	15788	4	US-09-320-759-13	Sequence 13, Appl
c 136	193.8	7.0	4038	3	US-08-969-125-8	Sequence 8, Appli	c 209	189.6	6.9	1355	4	US-09-370-838-31	Sequence 31, Appl
c 137	193.8	7.0	8453	3	US-09-167-681-45	Sequence 45, Appl	c 210	189.6	6.9	3166	4	US-09-341-587-8	Sequence 8, Appli
c 138	193.8	7.0	20966	4	US-09-776-976-7	Sequence 7, Appli	c 211	189.6	6.9	15297	4	US-09-817-180-3	Sequence 3, Appli
c 139	193.8	7.0	20966	4	US-09-909-547-7	Sequence 7, Appli	c 212	189.6	6.9	15297	4	US-10-003-295-3	Sequence 3, Appli
c 140	193.8	7.0	20966	4	US-09-569-852B-1	Sequence 1, Appli	c 213	189.6	6.9	17000	4	US-09-679-299A-18	Sequence 18, Appl
c 141	193.8	7.0	128779	4	US-09-497-855A-38	Sequence 38, Appl	c 214	189.6	6.9	36741	3	US-09-301-665-3	Sequence 3, Appli
c 142	193.6	7.0	399	4	US-09-621-976-13959	Sequence 13959, A	c 215	189.6	6.9	36741	3	US-09-301-665-3	Sequence 3, Appli
c 143	193.6	7.0	24707	4	US-09-740-027-3	Sequence 3, Appli	c 216	189.6	6.9	99500	4	US-09-798-096-10	Sequence 10, Appl
c 144	193.4	7.0	9365	4	US-09-608-285A-8	Sequence 8, Appli	c 217	189.4	6.9	9704	4	US-09-814-951A-3	Sequence 3, Appli
c 145	193.4	7.0	9365	4	US-09-350-836B-8	Sequence 8, Appli	c 218	189.4	6.9	50000	4	US-09-146-053-3	Sequence 3, Appli
c 146	193.4	7.0	9365	4	US-09-370-265-8	Sequence 8, Appli	c 219	189.2	6.9	1419	3	US-08-943-731-154	Sequence 154, App
c 147	193.4	7.0	9365	4	US-09-557-800C-8	Sequence 8, Appli	c 220	189.2	6.9	1638	4	US-09-620-312D-810	Sequence 810, App
c 148	193.4	7.0	9365	4	US-09-370-625A-8	Sequence 8, Appli	c 221	189.2	6.9	2477	1	US-08-429-742-1	Sequence 1, Appli
c 149	193.4	7.0	21721	4	US-09-269-939A-41	Sequence 41, Appl	c 222	189.2	6.9	4285	3	US-09-040-774-1	Sequence 1, Appli
c 150	193.4	7.0	22976	4	US-09-269-939A-19	Sequence 19, Appl	c 223	189.2	6.9	17606	3	US-08-943-731-4	Sequence 4, Appli
c 151	193.4	7.0	23187	4	US-09-499-522-1	Sequence 1, Appli	c 224	189.2	6.9	50000	4	US-09-146-053-3	Sequence 3, Appli
c 152	193.4	7.0	92139	4	US-09-918-686-1	Sequence 1, Appli	c 225	189.2	6.9	168575	4	US-09-426-290-1	Sequence 1, Appli
c 153	193.2	7.0	70000	4	US-09-851-896-3	Sequence 3, Appli	c 226	189	6.9	7210	2	US-08-257-963B-10	Sequence 10, Appl
c 154	193.2	7.0	118067	4	US-09-497-855A-32	Sequence 32, Appl	c 227	189	6.9	7210	4	US-08-367-841A-10	Sequence 10, Appl
c 155	193	7.0	39982	4	US-09-820-924-3	Sequence 3, Appli	c 228	189	6.9	7210	5	PCT-US95-07201-10	Sequence 10, Appl
c 156	193	7.0	53526	3	US-08-658-136-2	Sequence 2, Appli	c 229	189	6.9	14581	4	US-08-520-373D-4	Sequence 4, Appli
c 157	193	7.0	53577	3	US-08-658-136-1	Sequence 1, Appli	c 230	189	6.9	22481	4	US-08-367-841A-43	Sequence 43, Appl
c 158	193	7.0	116592	4	US-09-818-512-3	Sequence 3, Appli	c 231	189	6.9	22481	5	PCT-US95-07201-43	Sequence 43, Appl
c 159	192.8	7.0	128779	4	US-09-497-855A-38	Sequence 38, Appl	c 232	189	6.9	22484	4	US-09-875-223-2	Sequence 2, Appli
c 160	192.6	7.0	5044	4	US-09-735-935-3	Sequence 3, Appli	c 233	189	6.9	22484	4	US-09-875-114-2	Sequence 2, Appli
c 161	192.6	7.0	48763	4	US-09-916-204-3	Sequence 3, Appli	c 234	189	6.9	64467	4	US-09-803-671B-3	Sequence 3, Appli
c 162	192.4	7.0	368	4	US-09-621-976-10146	Sequence 10146, A	c 235	188.8	6.9	385	4	US-09-621-976-9359	Sequence 9359, Ap
c 163	192.4	7.0	63588	4	US-09-873-404-3	Sequence 3, Appli	c 236	188.8	6.9	1333	4	US-09-370-838-25	Sequence 25, Appl
c 164	192.4	7.0	72928	3	US-09-009-913-1	Sequence 1, Appli	c 237	188.8	6.9	1758	4	US-09-370-838-25	Sequence 25, Appl
c 165	192.4	7.0	246240	2	US-08-724-394A-20	Sequence 20, Appl	c 238	188.8	6.9	7050	4	US-09-376-594-683	Sequence 683, App
c 166	192.4	7.0	246240	2	US-08-724-394A-21	Sequence 21, Appl	c 239	188.8	6.9	12047	2	US-09-022-461-1	Sequence 1, Appli
c 167	192.4	7.0	246240	2	US-08-724-394A-22	Sequence 22, Appl	c 240	188.8	6.9	12047	4	US-09-033-556-3	Sequence 3, Appli
c 168	192.2	7.0	62804	4	US-09-800-960-3	Sequence 3, Appli	c 241	188.8	6.9	12047	4	US-09-474-699-11	Sequence 11, Appl
c 169	192.2	7.0	62804	4	US-10-096-960-3	Sequence 3, Appli	c 242	188.8	6.9	12047	4	US-09-151-376-3	Sequence 24, Appl
c 170	192.2	7.0	98844	4	US-09-791-211-10	Sequence 10, Appl	c 243	188.6	6.9	1328	4	US-09-370-838-24	Sequence 24, Appl
c 171	192	7.0	64467	4	US-09-803-671B-3	Sequence 3, Appli	c 244	188.6	6.9	2284	4	US-09-866-028-82	Sequence 82, Appl
c 172	191.8	7.0	162450	4	US-09-345-882-1	Sequence 1, Appli	c 245	188.6	6.9	18000	4	US-09-657-346A-17	Sequence 17, Appl
c 173	191.8	7.0	202001	4	US-09-734-674-3	Sequence 3, Appli	c 246	188.6	6.9	83450	4	US-09-811-469-3	Sequence 3, Appli

247	188.6	6.9	786431	4	US-09-751-389-3	Sequence 3, Appli	320	186.4	6.8	8758	4	US-09-799-345-3	Sequence 3, Appli
c 248	188.4	6.9	1762	4	US-09-443-184-35	Sequence 35, Appli	321	186.4	6.8	8758	4	US-09-962-276-3	Sequence 3, Appli
c 249	188.4	6.9	90541	4	US-09-759-359A-3	Sequence 3, Appli	c 322	186.4	6.8	20966	4	US-09-984-880-3	Sequence 3, Appli
250	188.2	6.8	646	3	US-09-385-982-314	Sequence 314, App	323	186.4	6.8	20966	4	US-09-776-976-7	Sequence 7, Appli
251	188.2	6.8	4192	4	US-09-122-126B-1	Sequence 1, Appli	324	186.4	6.8	20966	4	US-09-909-547-7	Sequence 7, Appli
252	188.2	6.8	4192	4	US-09-634-286A-1	Sequence 1, Appli	325	186.4	6.8	20966	4	US-09-569-852B-1	Sequence 1, Appli
253	188.2	6.8	5596	3	US-09-078-294-5	Sequence 5, Appli	c 326	186.4	6.8	20966	4	US-10-277-032-3	Sequence 3, Appli
254	188.2	6.8	7210	2	US-08-257-963B-10	Sequence 10, Appli	327	186.4	6.8	40000	4	US-09-780-049-18	Sequence 18, Appli
255	188.2	6.8	7210	4	US-08-367-841A-10	Sequence 10, Appli	328	186.4	6.8	83450	4	US-09-811-469-3	Sequence 3, Appli
256	188.2	6.8	7210	5	PCT-US95-07201-10	Sequence 10, Appli	c 329	186.4	6.8	84495	4	US-09-797-906-3	Sequence 3, Appli
c 257	188.2	6.8	9837	1	US-08-832-883-68	Sequence 68, Appli	c 330	186.4	6.8	92139	4	US-09-918-686-1	Sequence 1, Appli
c 258	188.2	6.8	9837	2	US-08-832-877-68	Sequence 68, Appli	c 331	186.2	6.8	328	4	US-09-621-976-8398	Sequence 8398, Ap
259	188.2	6.8	31571	1	US-08-323-443B-1	Sequence 1, Appli	c 332	186.2	6.8	420	4	US-09-621-976-15374	Sequence 15374, A
260	188.2	6.8	38564	4	US-09-734-673-3	Sequence 3, Appli	c 333	186.2	6.8	4129	3	US-08-370-319C-12	Sequence 12, Appli
c 261	188	6.8	328	4	US-09-621-976-7982	Sequence 7982, Ap	c 334	186.2	6.8	4129	3	US-09-224-834-12	Sequence 12, Appli
c 262	188	6.8	1331	4	US-09-370-838-27	Sequence 27, Appli	c 335	186.2	6.8	45716	4	US-08-965-048-5	Sequence 5, Appli
c 263	188	6.8	16891	4	US-09-486-147-1	Sequence 1, Appli	c 336	186.2	6.8	45989	4	US-08-965-048-6	Sequence 6, Appli
c 264	188	6.8	29629	4	US-09-729-595-3	Sequence 3, Appli	c 337	186.2	6.8	70000	4	US-09-851-896-3	Sequence 3, Appli
c 265	188	6.8	29629	4	US-10-135-689-3	Sequence 3, Appli	c 338	186.2	6.8	116592	4	US-09-818-512-3	Sequence 3, Appli
c 266	188	6.8	66804	4	US-09-740-041-3	Sequence 3, Appli	c 339	186.2	6.8	202001	4	US-09-734-674-3	Sequence 3, Appli
c 267	187.8	6.8	314	4	US-09-621-976-7928	Sequence 7928, Ap	340	186	6.8	489	4	US-09-370-838-109	Sequence 109, App
c 268	187.8	6.8	314	4	US-09-621-976-7933	Sequence 7933, Ap	c 341	186	6.8	1001	4	US-09-671-317-160	Sequence 160, App
c 269	187.8	6.8	314	4	US-09-621-976-8396	Sequence 8396, Ap	c 342	186	6.8	2000	4	US-09-705-267A-19	Sequence 19, Appli
c 270	187.8	6.8	314	4	US-09-621-976-8760	Sequence 8760, Ap	c 343	186	6.8	4233	3	US-09-056-105-27	Sequence 27, Appli
c 271	187.8	6.8	314	4	US-09-621-976-8807	Sequence 8807, Ap	c 344	185.8	6.8	314	4	US-09-621-976-7899	Sequence 7899, Ap
c 272	187.8	6.8	36159	4	US-09-749-588-3	Sequence 3, Appli	c 345	185.8	6.8	328	4	US-09-621-976-8489	Sequence 8489, Ap
c 273	187.8	6.8	36651	4	US-09-738-894A-3	Sequence 3, Appli	c 346	185.8	6.8	851	4	US-09-495-050A-138	Sequence 138, App
c 274	187.8	6.8	36651	4	US-09-964-469-3	Sequence 3, Appli	c 347	185.8	6.8	367	4	US-09-323-873A-6	Sequence 6, Appli
c 275	187.6	6.8	1000	3	US-09-018-584A-32	Sequence 32, Appli	c 348	185.8	6.8	5590	3	US-09-050-159-129	Sequence 129, App
c 276	187.6	6.8	13205	4	US-09-835-811-3	Sequence 3, Appli	c 349	185.8	6.8	10825	3	US-08-652-265-1	Sequence 1, Appli
c 277	187.6	6.8	15602	4	US-09-844-634-17	Sequence 17, Appli	c 350	185.8	6.8	10825	3	US-08-652-265-3	Sequence 3, Appli
c 278	187.6	6.8	19650	4	US-09-819-989-3	Sequence 3, Appli	c 351	185.8	6.8	10825	3	US-08-652-265-5	Sequence 5, Appli
c 279	187.6	6.8	19650	4	US-10-273-992-3	Sequence 3, Appli	c 352	185.8	6.8	10825	3	US-08-652-265-7	Sequence 7, Appli
c 280	187.6	6.8	51552	4	US-09-733-294A-30	Sequence 30, Appli	c 353	185.8	6.8	10825	3	US-08-834-497A-1	Sequence 1, Appli
c 281	187.4	6.8	20674	4	US-09-641-638-651	Sequence 651, App	c 354	185.8	6.8	10825	3	US-08-834-497A-3	Sequence 3, Appli
c 282	187.4	6.8	22255	4	US-09-616-289-51	Sequence 51, Appli	c 355	185.8	6.8	10825	3	US-08-834-497A-5	Sequence 5, Appli
c 283	187.4	6.8	25603	4	US-09-819-607-3	Sequence 3, Appli	c 356	185.8	6.8	10825	3	US-08-834-497A-7	Sequence 7, Appli
c 284	187.4	6.8	193303	4	US-09-497-855A-37	Sequence 37, Appli	c 357	185.8	6.8	10825	3	US-09-503-444A-1	Sequence 1, Appli
c 285	187.4	6.8	193303	4	US-09-497-855A-44	Sequence 44, Appli	c 358	185.8	6.8	10825	3	US-09-503-444A-3	Sequence 3, Appli
c 286	187.2	6.8	1643	4	US-09-599-360B-53	Sequence 53, Appli	c 359	185.8	6.8	10825	3	US-09-503-444A-5	Sequence 5, Appli
c 287	187.2	6.8	4042	3	US-08-406-030A-17	Sequence 17, Appli	c 360	185.8	6.8	10825	3	US-09-503-444A-7	Sequence 7, Appli
c 288	187.2	6.8	7676	1	US-08-451-777A-7	Sequence 7, Appli	361	185.8	6.8	32654	4	US-09-801-191A-3	Sequence 3, Appli
c 289	187.2	6.8	7676	2	US-08-451-778A-7	Sequence 7, Appli	362	185.8	6.8	87350	4	US-08-781-891-79	Sequence 79, Appli
c 290	187.2	6.8	7676	2	US-08-998-208-7	Sequence 7, Appli	363	185.8	6.8	87350	4	US-09-618-166-77	Sequence 77, Appli
c 291	187.2	6.8	7676	5	PCT-US95-06743-7	Sequence 7, Appli	364	185.8	6.8	87543	4	US-09-791-211-3	Sequence 3, Appli
c 292	187	6.8	314	4	US-09-621-976-7883	Sequence 7883, Ap	c 365	185.6	6.8	395	4	US-09-621-976-9164	Sequence 9164, Ap
c 293	187	6.8	6235	3	US-09-305-384-5	Sequence 5, Appli	366	185.6	6.8	619	3	US-09-385-982-358	Sequence 358, App
c 294	187	6.8	6235	4	US-09-525-160B-6	Sequence 6, Appli	367	185.6	6.8	3198	4	US-09-601-478-3	Sequence 3, Appli
c 295	187	6.8	6679	3	US-09-305-384-1	Sequence 1, Appli	368	185.2	6.7	2907	4	US-09-023-655-1053	Sequence 1053, Ap
c 296	187	6.8	6679	4	US-09-525-160B-5	Sequence 5, Appli	369	185.2	6.7	10380	3	US-09-077-354B-3	Sequence 3, Appli
c 297	187	6.8	174493	4	US-09-804-471A-3	Sequence 3, Appli	370	185.2	6.7	36651	4	US-09-738-894A-3	Sequence 3, Appli
c 298	187	6.8	174493	4	US-10-238-709-3	Sequence 3, Appli	371	185.2	6.7	36651	4	US-09-964-469-3	Sequence 3, Appli
c 299	186.8	6.8	319	4	US-09-621-976-13129	Sequence 13129, A	c 372	185.2	6.7	40000	4	US-09-780-049-18	Sequence 18, Appli
c 300	186.8	6.8	1554	4	US-09-716-129-14	Sequence 14, Appli	373	185.2	6.7	63588	4	US-09-873-404-3	Sequence 3, Appli
c 301	186.8	6.8	3001	4	US-09-539-333D-211	Sequence 211, App	c 374	185.2	6.7	169998	4	US-09-676-610B-24	Sequence 24, Appli
c 302	186.8	6.8	6139	4	US-08-843-076D-33	Sequence 33, Appli	c 375	185.2	6.7	197496	4	US-09-877-177A-10	Sequence 10, Appli
c 303	186.8	6.8	152331	3	US-09-128-155-16	Sequence 16, Appli	c 376	185	6.7	1334	2	US-08-481-658B-44	Sequence 44, Appli
c 304	186.8	6.8	786431	4	US-09-751-389-3	Sequence 3, Appli	c 377	185	6.7	1334	2	US-08-477-504A-44	Sequence 44, Appli
c 305	186.6	6.8	319	4	US-09-621-976-19267	Sequence 19267, A	c 378	185	6.7	1334	2	US-08-486-756A-44	Sequence 44, Appli
c 306	186.6	6.8	497	4	US-09-621-976-3876	Sequence 3876, Ap	c 379	185	6.7	1334	2	US-08-485-862B-44	Sequence 44, Appli
c 307	186.6	6.8	3492	4	US-09-023-655-1219	Sequence 1219, Ap	c 380	185	6.7	1334	2	US-08-787-739-44	Sequence 44, Appli
c 308	186.6	6.8	12146	4	US-09-277-457-27	Sequence 27, Appli	c 381	185	6.7	1334	3	US-08-485-863A-44	Sequence 44, Appli
c 309	186.6	6.8	12146	4	US-09-679-729-27	Sequence 27, Appli	c 382	185	6.7	1334	3	US-08-485-863A-44	Sequence 44, Appli
c 310	186.6	6.8	51552	4	US-09-733-294A-30	Sequence 30, Appli	c 383	185	6.7	1334	3	US-08-485-049D-44	Sequence 44, Appli
c 311	186.4	6.8	6769	1	US-08-480-784-20	Sequence 20, Appli	c 384	185	6.7	1334	3	US-09-178-115-44	Sequence 44, Appli
c 312	186.4	6.8	6769	1	US-08-483-553-20	Sequence 20, Appli	c 385	185	6.7	1334	3	US-09-177-776-44	Sequence 44, Appli
c 313	186.4	6.8	6769	1	US-08-487-002-20	Sequence 20, Appli	c 386	185	6.7	10898	2	US-08-481-658B-5	Sequence 5, Appli
c 314	186.4	6.8	6769	1	US-08-483-554B-20	Sequence 20, Appli	c 387	185	6.7	10898	2	US-08-477-504A-5	Sequence 5, Appli
c 315	186.4	6.8	6769	1	US-08-488-011B-20	Sequence 20, Appli	c 388	185	6.7	10898	2	US-08-486-756A-5	Sequence 5, Appli
c 316	186.4	6.8	6769	3	US-08-850-727-20	Sequence 20, Appli	c 389	185	6.7	10898	2	US-08-485-862B-5	Sequence 5, Appli
c 317	186.4	6.8	6769	5	PCT-US95-10202-20	Sequence 20, Appli	c 390	185	6.7	10898	3	US-08-787-739-5	Sequence 5, Appli
c 318	186.4	6.8	6769	5	PCT-US95-10203-20	Sequence 20, Appli	c 391	185	6.7	10898	3	US-08-487-077A-5	Sequence 5, Appli
c 319	186.4	6.8	6769	5	PCT-US95-10220-20	Sequence 20, Appli	c 392	185	6.7	10898	3	US-08-485-863A-5	Sequence 5, Appli

C 393	185	6.7	10898	3	US-08-485-049D-5	Sequence 5, Appl	C 466	182.8	6.6	2461	1	US-08-832-883-3	Sequence 3, Appl
C 394	185	6.7	10898	3	US-09-178-115-5	Sequence 5, Appl	C 467	182.8	6.6	2461	2	US-08-832-877-113	Sequence 113, App
C 395	185	6.7	10898	3	US-09-177-776-5	Sequence 5, Appl	C 468	182.8	6.6	2463	3	US-09-499-884-11	Sequence 11, Appl
C 396	185	6.7	20303	1	US-08-370-975B-6	Sequence 6, Appl	C 469	182.6	6.6	317	4	US-09-621-976-12183	Sequence 12183, A
C 397	185	6.7	26764	1	US-08-370-975B-1	Sequence 1, Appl	C 470	182.6	6.6	321	4	US-09-621-976-12009	Sequence 12009, A
C 398	184.8	6.7	615	3	US-09-385-982-528	Sequence 528, App	C 471	182.6	6.6	328	4	US-09-621-976-7890	Sequence 7890, A
C 399	184.8	6.7	3694	3	US-09-232-200-46	Sequence 46, Appl	C 472	182.6	6.6	1175	4	US-09-489-847-105	Sequence 105, App
C 400	184.8	6.7	3694	4	US-09-232-197-46	Sequence 46, Appl	C 473	182.6	6.6	1175	4	US-09-800-729-32	Sequence 32, Appl
C 401	184.8	6.7	3694	4	US-09-232-201-46	Sequence 46, Appl	C 474	182.6	6.6	2532	4	US-09-799-345-1	Sequence 1, Appl
C 402	184.8	6.7	3694	4	US-09-232-195-46	Sequence 46, Appl	C 475	182.6	6.6	2532	4	US-09-962-276-1	Sequence 1, Appl
C 403	184.8	6.7	3704	3	US-09-232-200-24	Sequence 24, Appl	C 476	182.6	6.6	3867	3	US-09-347-114A-81	Sequence 81, Appl
C 404	184.8	6.7	3704	4	US-09-232-197-24	Sequence 24, Appl	C 477	182.6	6.6	8353	3	US-08-611-587-1	Sequence 1, Appl
C 405	184.8	6.7	3704	4	US-09-232-201-24	Sequence 24, Appl	C 478	182.6	6.6	12482	4	US-09-512-563C-25	Sequence 25, Appl
C 406	184.8	6.7	3704	4	US-09-232-195-24	Sequence 24, Appl	C 479	182.4	6.6	321	4	US-09-621-976-13503	Sequence 13503, A
C 407	184.8	6.7	5232	3	US-09-212-971-3	Sequence 3, Appl	C 480	182.4	6.6	328	4	US-09-621-976-7930	Sequence 7930, A
C 408	184.8	6.7	5232	3	US-08-800-929A-3	Sequence 3, Appl	C 481	182.4	6.6	1320	4	US-09-370-838-22	Sequence 22, Appl
C 409	184.8	6.7	5232	4	US-09-617-053A-3	Sequence 3, Appl	C 482	182.4	6.6	2191	4	US-09-482-273-79	Sequence 79, Appl
C 410	184.8	6.7	45546	4	US-09-146-053-6	Sequence 6, Appl	C 483	182.4	6.6	3679	4	US-09-907-794A-244	Sequence 244, App
C 411	184.6	6.7	357	4	US-09-621-976-9619	Sequence 9619, App	C 484	182.4	6.6	3679	4	US-09-905-125A-244	Sequence 244, App
C 412	184.6	6.7	438	4	US-09-621-976-9286	Sequence 9286, App	C 485	182.4	6.6	3679	4	US-09-902-775A-244	Sequence 244, App
C 413	184.6	6.7	498	4	US-09-621-976-14555	Sequence 14555, A	C 486	182.4	6.6	16389	4	US-09-741-154-3	Sequence 3, Appl
C 414	184.6	6.7	1860	4	US-09-489-847-53	Sequence 53, Appl	C 487	182.4	6.6	59065	4	US-09-813-817-3	Sequence 3, Appl
C 415	184.6	6.7	1988	2	US-08-257-963B-11	Sequence 11, Appl	C 488	182.4	6.6	59065	4	US-09-978-197-3	Sequence 3, Appl
C 416	184.6	6.7	1988	4	US-08-367-841A-11	Sequence 11, Appl	C 489	182.4	6.6	80246	3	US-09-078-294-4	Sequence 4, Appl
C 417	184.6	6.7	1988	5	PCT-US95-07201-11	Sequence 11, Appl	C 490	182.2	6.6	316	4	US-09-621-976-11516	Sequence 11516, A
C 418	184.6	6.7	2839	3	US-09-061-702-1	Sequence 1, Appl	C 491	182.2	6.6	495	3	US-09-621-976-13168	Sequence 13168, A
C 419	184.6	6.7	5262	4	US-08-520-373D-5	Sequence 5, Appl	C 492	182.2	6.6	896	3	US-08-943-731-31	Sequence 31, Appl
C 420	184.6	6.7	18853	4	US-09-820-005-3	Sequence 3, Appl	C 493	182.2	6.6	1901	3	US-09-338-907-181	Sequence 181, App
C 421	184.6	6.7	38653	4	US-09-922-445-1	Sequence 1, Appl	C 494	182.2	6.6	1901	4	US-09-218-207-181	Sequence 181, App
C 422	184.6	6.7	118067	4	US-09-497-855A-32	Sequence 32, Appl	C 495	182.2	6.6	3470	4	US-09-486-147-2	Sequence 2, Appl
C 423	184.4	6.7	364	4	US-09-621-976-13012	Sequence 13012, A	C 496	182.2	6.6	5543	2	US-08-687-080-101	Sequence 101, App
C 424	184.4	6.7	490	4	US-09-621-976-9426	Sequence 9426, App	C 497	182.2	6.6	12597	4	US-09-705-299-12	Sequence 12, Appl
C 425	184.4	6.7	850	4	US-09-288-143-26	Sequence 26, Appl	C 498	182.2	6.6	12619	4	US-09-616-289-49	Sequence 49, Appl
C 426	184.4	6.7	9721	3	US-09-345-217-2	Sequence 2, Appl	C 499	182.2	6.6	14747	4	US-09-608-285A-42	Sequence 42, Appl
C 427	184.2	6.7	441	4	US-09-621-976-13338	Sequence 13338, A	C 500	182.2	6.6	14747	4	US-09-557-800C-42	Sequence 42, Appl
C 428	184.2	6.7	1000	4	US-09-671-317-471	Sequence 471, App	C 501	182.2	6.6	15977	4	US-09-608-285A-59	Sequence 59, Appl
C 429	184.2	6.7	4421	2	US-08-257-963B-9	Sequence 9, Appl	C 502	182.2	6.6	16063	4	US-09-801-052-3	Sequence 3, Appl
C 430	184.2	6.7	4421	4	US-08-367-841A-9	Sequence 9, Appl	C 503	182.2	6.6	16063	4	US-10-020-121-3	Sequence 1, Appl
C 431	184.2	6.7	4421	4	US-08-520-373D-6	Sequence 6, Appl	C 504	182.2	6.6	18609	3	US-08-943-731-1	Sequence 1, Appl
C 432	184.2	6.7	4421	5	PCT-US95-07201-9	Sequence 9, Appl	C 505	182.2	6.6	38844	2	US-09-734-675-3	Sequence 3, Appl
C 433	184.2	6.7	49312	4	US-09-671-317-485	Sequence 485, App	C 506	182.2	6.6	56516	2	US-08-996-306-1	Sequence 1, Appl
C 434	184	6.7	4171	4	US-09-667-422-3	Sequence 3, Appl	C 507	182.2	6.6	56516	3	US-09-338-907-1	Sequence 1, Appl
C 435	184	6.7	4171	4	US-09-667-422-3	Sequence 2, Appl	C 508	182.2	6.6	56516	4	US-09-218-207-1	Sequence 1, Appl
C 436	184	6.7	40090	4	US-09-820-004-3	Sequence 3, Appl	C 509	182.2	6.6	56520	3	US-09-338-907-179	Sequence 179, App
C 437	183.8	6.7	1000	3	US-09-018-584A-33	Sequence 3, Appl	C 510	182.2	6.6	56520	4	US-09-218-207-179	Sequence 179, App
C 438	183.8	6.7	1278	2	US-08-909-965C-4	Sequence 4, Appl	C 511	182	6.6	317	4	US-09-621-976-9404	Sequence 9404, App
C 439	183.8	6.7	2127	1	US-08-832-883-54	Sequence 54, Appl	C 512	182	6.6	511	4	US-09-621-976-1354	Sequence 1354, App
C 440	183.8	6.7	2127	2	US-08-832-877-54	Sequence 54, Appl	C 513	182	6.6	2002	2	US-08-715-202A-3	Sequence 3, Appl
C 441	183.8	6.7	2713	2	US-08-916-901-6	Sequence 6, Appl	C 514	182	6.6	2002	4	US-09-328-775-3	Sequence 3, Appl
C 442	183.8	6.7	2713	4	US-09-154-602-6	Sequence 6, Appl	C 515	182	6.6	2002	4	US-09-994-177-3	Sequence 3, Appl
C 443	183.8	6.7	6088	4	US-09-620-312D-190	Sequence 190, App	C 516	182	6.6	28001	4	US-09-819-993-3	Sequence 3, Appl
C 444	183.8	6.7	38653	4	US-09-922-445-1	Sequence 1, Appl	C 517	182	6.6	28001	4	US-10-193-295-3	Sequence 3, Appl
C 445	183.8	6.7	59065	4	US-09-813-817-3	Sequence 3, Appl	C 518	182	6.6	28720	4	US-09-341-587-7	Sequence 7, Appl
C 446	183.8	6.7	59065	4	US-09-978-197-3	Sequence 3, Appl	C 519	182	6.6	46718	4	US-09-816-093-3	Sequence 3, Appl
C 447	183.6	6.7	304	4	US-09-621-976-8439	Sequence 8439, App	C 520	181.8	6.6	382	4	US-09-621-976-10062	Sequence 10062, A
C 448	183.6	6.7	1019	4	US-09-177-650-128	Sequence 128, App	C 521	181.8	6.6	398	4	US-09-621-976-10066	Sequence 10066, A
C 449	183.6	6.7	412	4	US-09-197-636-1	Sequence 1, Appl	C 522	181.8	6.6	445	4	US-09-621-976-14297	Sequence 14297, A
C 450	183.6	6.7	4803	3	US-09-197-636-3	Sequence 3, Appl	C 523	181.8	6.6	4203	4	US-09-667-422-1	Sequence 1, Appl
C 451	183.4	6.7	4773	3	US-08-884-324-9	Sequence 9, Appl	C 524	181.8	6.6	9301	4	US-09-449-218D-18	Sequence 18, Appl
C 452	183.4	6.7	11464	3	US-08-884-324-13	Sequence 13, Appl	C 525	181.8	6.6	9301	4	US-09-668-529A-18	Sequence 18, Appl
C 453	183.4	6.7	28994	3	US-08-884-324-14	Sequence 14, Appl	C 526	181.8	6.6	9301	4	US-09-668-037A-18	Sequence 18, Appl
C 454	183.2	6.7	412	4	US-09-621-976-9147	Sequence 9147, App	C 527	181.6	6.6	398	4	US-09-621-976-10198	Sequence 10198, A
C 455	183.2	6.7	464	4	US-09-621-976-18352	Sequence 18352, A	C 528	181.6	6.6	529	4	US-09-621-976-2252	Sequence 2252, App
C 456	183.2	6.7	1589	1	US-07-971-092-1	Sequence 1, Appl	C 529	181.6	6.6	2857	4	US-09-402-532-38	Sequence 38, Appl
C 457	183.2	6.7	1611	6	5198342-1	Patent No. 5198342	C 530	181.6	6.6	8133	4	US-09-659-791A-10	Sequence 10, Appl
C 458	183.2	6.7	9573	6	US-09-220-132-168	Sequence 168, App	C 531	181.6	6.6	10380	3	US-09-077-354B-3	Sequence 3, Appl
C 459	183	6.7	50000	4	US-09-146-053-4	Sequence 4, Appl	C 532	181.6	6.6	161652	4	US-09-497-855A-40	Sequence 40, Appl
C 460	183	6.7	81001	4	US-09-750-580-1	Sequence 1, Appl	C 533	181.4	6.6	379	4	US-09-621-976-10205	Sequence 10205, A
C 461	183	6.7	98844	4	US-09-791-211-10	Sequence 10, Appl	C 534	181.4	6.6	14796	3	US-08-975-080-35	Sequence 35, Appl
C 462	182.8	6.6	380	4	US-09-621-976-12667	Sequence 12667, A	C 535	181.4	6.6	14796	3	US-09-630-706-10	Sequence 10, Appl
C 463	182.8	6.6	598	4	US-09-641-638-60	Sequence 60, Appl	C 536	181.4	6.6	14796	4	US-09-496-694B-3	Sequence 3, Appl
C 464	182.8	6.6	598	4	US-09-641-638-574	Sequence 574, App	C 537	181.4	6.6	16595	4	US-09-146-053-7	Sequence 7, Appl
C 465	182.8	6.6	2387	4	US-09-375-318-38	Sequence 38, Appl	C 538	181.2	6.6	380	4	US-09-621-976-12238	Sequence 12238, A

c 539	181.2	6.6	380	4	US-09-621-976-13325	Sequence 13325, A	612	178.8	6.5	7379	4	US-09-341-587-5	Sequence 5, Appli
540	181.2	6.6	461	4	US-09-404-879A-1	Sequence 1, Appli	613	178.6	6.5	487	4	US-09-621-976-1990	Sequence 1990, Ap
541	181.2	6.6	461	4	US-09-404-879A-3	Sequence 3, Appli	c 614	178.6	6.5	956	4	US-09-369-247-47	Sequence 47, Appl
542	181.2	6.6	461	4	US-09-338-933-1	Sequence 1, Appli	615	178.6	6.5	2457	4	US-09-620-312D-223	Sequence 223, App
543	181.2	6.6	461	4	US-09-338-933-3	Sequence 3, Appli	616	178.6	6.5	2861	2	US-08-770-301A-12	Sequence 12, Appl
544	181.2	6.6	461	4	US-09-215-681-1	Sequence 1, Appli	617	178.6	6.5	2861	3	US-09-175-581-12	Sequence 12, Appl
545	181.2	6.6	461	4	US-09-215-681-3	Sequence 3, Appli	618	178.6	6.5	4428	4	US-09-023-655-1109	Sequence 1109, Ap
546	181.2	6.6	461	4	US-09-216-003A-1	Sequence 1, Appli	c 619	178.6	6.5	7130	3	US-09-056-105-31	Sequence 31, Appl
547	181.2	6.6	461	4	US-09-216-003A-3	Sequence 3, Appli	620	178.6	6.5	26016	4	US-09-326-480A-1	Sequence 1, Appli
548	181.2	6.6	2413	3	US-09-518-046-1	Sequence 1, Appli	c 621	178.4	6.5	2480	4	US-09-534-638-3	Sequence 3, Appli
549	181.2	6.6	2416	3	US-09-261-416-1	Sequence 1, Appli	c 622	178.4	6.5	2813	4	US-09-689-255C-3	Sequence 3, Appli
550	181.2	6.6	2544	3	US-09-518-046-3	Sequence 3, Appli	c 623	178.4	6.5	14636	3	US-09-173-914-6	Sequence 6, Appli
c 551	181.2	6.6	32654	4	US-09-801-191A-3	Sequence 3, Appli	624	178.4	6.5	18443	3	US-09-078-294-6	Sequence 6, Appli
c 552	181.2	6.6	63000	4	US-09-780-172-18	Sequence 18, Appl	625	178.4	6.5	319608	4	US-09-539-333D-1	Sequence 1, Appli
c 553	181.2	6.6	65042	4	US-09-784-316-3	Sequence 3, Appli	626	178.4	6.5	319608	4	US-09-679-409-1	Sequence 1, Appli
c 554	181	6.6	381	4	US-09-621-976-11214	Sequence 11214, A	627	178.2	6.5	1371	4	US-09-023-655-986	Sequence 986, App
c 555	181	6.6	2712	4	US-09-976-594-1010	Sequence 1010, Ap	628	178.2	6.5	1624	2	US-08-852-807-10	Sequence 10, Appl
c 556	181	6.6	4086	4	US-09-702-705-1801	Sequence 1801, Ap	c 629	178.2	6.5	1811	1	US-08-848-252-1	Sequence 1, Appli
c 557	181	6.6	4086	4	US-09-736-457-1801	Sequence 1801, Ap	c 630	178.2	6.5	6709	3	US-09-485-601-3	Sequence 3, Appli
c 558	181	6.6	4086	4	US-09-671-325-1801	Sequence 1801, Ap	631	178.2	6.5	13674	2	US-08-852-807-1	Sequence 1, Appli
c 559	181	6.6	41684	4	US-08-306-691B-19	Sequence 19, Appl	632	178.2	6.5	29485	4	US-09-785-381-6	Sequence 6, Appli
c 560	181	6.6	35100	5	PCT-US93-06251-19	Sequence 19, Appl	633	178	6.5	437	4	US-09-621-976-11381	Sequence 11381, A
c 561	181	6.6	39982	4	US-09-820-924-3	Sequence 3, Appli	c 634	178	6.5	458	4	US-09-621-976-12606	Sequence 12606, A
c 562	181	6.6	65042	4	US-09-784-316-3	Sequence 3, Appli	c 635	178	6.5	1749	4	US-09-149-476-54	Sequence 54, Appl
c 563	181	6.6	80595	3	US-09-788-294-3	Sequence 3, Appli	c 636	178	6.5	3373	1	US-08-273-411-2	Sequence 2, Appli
c 564	180.8	6.6	648	3	US-09-385-982-332	Sequence 332, App	637	178	6.5	4811	4	US-09-569-852B-2	Sequence 2, Appli
c 565	180.8	6.6	11558	5	PCT-US93-06251-23	Sequence 23, Appl	638	178	6.5	8174	1	US-07-914-281-5	Sequence 5, Appli
c 566	180.8	6.6	41684	4	US-09-536-059-1	Sequence 1, Appli	639	178	6.5	8174	1	US-08-393-246-5	Sequence 5, Appli
c 567	180.6	6.6	14753	4	US-09-821-736-3	Sequence 3, Appli	640	178	6.5	8174	1	US-08-525-058A-5	Sequence 5, Appli
c 568	180.6	6.6	20598	4	US-09-593-995-10	Sequence 10, Appl	641	178	6.5	8174	2	US-08-696-731-5	Sequence 5, Appli
c 569	180.4	6.6	379	4	US-09-621-976-10109	Sequence 10109, A	642	178	6.5	8174	5	PCT-US91-00899-3	Sequence 3, Appli
c 570	180.4	6.6	998	4	US-09-227-357-62	Sequence 62, Appl	643	178	6.5	8174	5	US-09-797-908-3	Sequence 3, Appli
c 571	180.4	6.6	3000	4	US-09-705-267A-18	Sequence 18, Appl	644	178	6.5	8220	4	US-09-146-053-4	Sequence 4, Appli
c 572	180.4	6.6	3158	2	US-08-464-517-36	Sequence 36, Appl	645	178	6.5	50000	4	US-09-621-976-13108	Sequence 13108, A
c 573	180.4	6.6	3158	2	US-08-246-313A-36	Sequence 36, Appl	c 646	177.8	6.5	319	4	US-09-708-725A-3	Sequence 3, Appli
c 574	180.4	6.6	3158	2	US-08-463-772-36	Sequence 36, Appl	c 647	177.8	6.5	2199	4	US-08-436-771-8	Sequence 8, Appli
c 575	180.4	6.6	3804	2	US-08-483-488-5	Sequence 5, Appli	648	177.8	6.5	2562	2	US-08-434-998-8	Sequence 8, Appli
c 576	180.4	6.6	14485	3	US-09-876-216-3	Sequence 3, Appli	649	177.8	6.5	2562	2	US-08-487-797-8	Sequence 8, Appli
c 577	180.4	6.6	35060	3	US-08-814-095-7	Sequence 7, Appli	650	177.8	6.5	2562	2	PCT-US95-02059-8	Sequence 8, Appli
c 578	180.4	6.6	53526	3	US-08-658-136-2	Sequence 2, Appli	651	177.8	6.5	2562	5	US-08-726-725-2	Sequence 2, Appli
c 579	180.4	6.6	53577	3	US-08-658-136-1	Sequence 1, Appli	652	177.6	6.5	3035	1	US-08-220-132-57	Sequence 57, Appl
c 580	180.4	6.6	55827	4	US-09-813-133A-3	Sequence 3, Appli	653	177.6	6.5	3701	4	US-09-901-151-3	Sequence 3, Appli
c 581	180.2	6.6	312	4	US-09-621-976-13697	Sequence 13697, A	c 654	177.6	6.5	18400	4	US-09-621-976-14372	Sequence 14372, A
c 582	180.2	6.6	1600	2	US-08-487-113D-117	Sequence 117, App	655	177.4	6.5	2995	1	US-08-592-126-85	Sequence 85, Appl
c 583	180.2	6.6	1600	2	US-08-720-420A-117	Sequence 117, App	656	177.4	6.5	2995	4	US-09-168-595-85	Sequence 85, Appl
c 584	180.2	6.6	4421	2	US-08-257-963B-9	Sequence 9, Appli	657	177.4	6.5	2995	4	US-08-816-617A-1	Sequence 1, Appli
c 585	180.2	6.6	4421	4	US-08-367-841A-9	Sequence 9, Appli	658	177.4	6.5	6678	3	US-09-852-067-3	Sequence 3, Appli
c 586	180.2	6.6	4421	4	US-08-520-373D-6	Sequence 6, Appli	659	177.4	6.5	31208	4	US-09-749-588-3	Sequence 3, Appli
c 587	180.2	6.6	4421	5	PCT-US95-07201-9	Sequence 9, Appli	c 660	177.4	6.5	36159	4	US-09-810-347-3	Sequence 3, Appli
c 588	180.2	6.6	40090	4	US-09-820-004-3	Sequence 3, Appli	c 661	177.4	6.5	42571	4	US-09-621-976-2819	Sequence 2819, Ap
c 589	180	6.5	20284	4	US-09-526-193A-21	Sequence 21, Appl	c 662	177.2	6.4	529	4	US-09-621-976-454-32	Sequence 32, Appl
c 590	179.8	6.5	2067	4	US-09-716-129-20	Sequence 20, Appl	c 663	177.2	6.4	1264	4	US-08-724-774B-3	Sequence 3, Appli
c 591	179.8	6.5	6799	4	US-09-620-312D-299	Sequence 299, App	664	177.2	6.4	2559	2	US-09-089-595-3	Sequence 3, Appli
c 592	179.8	6.5	51719	4	US-09-918-686-2	Sequence 2, Appli	665	177.2	6.4	2559	3	US-09-382-855-3	Sequence 3, Appli
c 593	179.8	6.5	161652	4	US-09-497-855A-40	Sequence 40, Appl	666	177.2	6.4	2559	3	US-09-183-714B-3	Sequence 3, Appli
c 594	179.6	6.5	438	4	US-09-621-976-12267	Sequence 12267, A	667	177.2	6.4	2559	4	US-09-642-281-3	Sequence 3, Appli
c 595	179.6	6.5	9573	4	US-09-220-132-168	Sequence 168, App	668	177.2	6.4	2559	4	US-09-589-717-3	Sequence 3, Appli
c 596	179.4	6.5	9377	4	US-09-801-874-3	Sequence 3, Appli	669	177.2	6.4	2559	4	US-09-338-907-181	Sequence 181, App
c 597	179.4	6.5	14636	3	US-09-173-914-6	Sequence 6, Appli	c 670	177	6.4	1901	3	US-09-218-207-181	Sequence 181, App
c 598	179.4	6.5	72928	3	US-09-009-913-1	Sequence 1, Appli	c 671	177	6.4	1901	3	US-09-033-333-3	Sequence 3, Appli
c 599	179.2	6.5	397	4	US-09-621-976-10970	Sequence 10970, A	672	177	6.4	5835	3	US-09-033-556-2	Sequence 2, Appli
c 600	179.2	6.5	461	4	US-09-621-976-13755	Sequence 13755, A	673	177	6.4	5835	4	US-09-614-495-3	Sequence 3, Appli
c 601	179.2	6.5	629	3	US-09-385-982-204	Sequence 204, App	674	177	6.4	5835	4	US-09-151-376-2	Sequence 2, Appli
c 602	179.2	6.5	2296	4	US-09-851-896-11	Sequence 11, Appl	675	177	6.4	5835	1	US-08-380-916-1	Sequence 1, Appli
c 603	179.2	6.5	3805	4	US-09-108-006C-3	Sequence 3, Appli	676	177	6.4	5836	3	US-08-721-690-1	Sequence 1, Appli
c 604	179	6.5	331	4	US-09-621-976-10828	Sequence 10828, A	677	177	6.4	5836	3	US-08-891-581-1	Sequence 1, Appli
c 605	179	6.5	367	4	US-09-621-976-9996	Sequence 9996, Ap	678	177	6.4	5836	3	US-09-033-333-2	Sequence 2, Appli
c 606	179	6.5	1242	2	US-08-909-965C-5	Sequence 5, Appli	679	177	6.4	5836	3	US-09-033-556-1	Sequence 1, Appli
c 607	179	6.5	3001	4	US-09-539-333D-168	Sequence 168, App	680	177	6.4	5836	4	US-09-614-495-2	Sequence 2, Appli
c 608	179	6.5	193303	4	US-09-497-855A-37	Sequence 37, Appl	681	177	6.4	5836	4	US-09-474-699-9	Sequence 9, Appli
c 609	179	6.5	193303	4	US-09-497-855A-44	Sequence 44, Appl	682	177	6.4	5836	4	US-09-151-376-1	Sequence 1, Appli
c 610	178.8	6.5	374	4	US-09-621-976-12442	Sequence 12442, A	683	177	6.4	5836	4	US-09-814-951A-3	Sequence 3, Appli
c 611	178.8	6.5	3885	1	US-08-688-145-1	Sequence 1, Appli	c 684	177	6.4	9704	4		

C 685	177	6.4	56516	2	US-08-996-306-1	Sequence 1, Appli	758	175.4	6.4	18597	4	US-09-963-333-8	Sequence 8, Appli
C 686	177	6.4	56516	3	US-09-338-907-1	Sequence 1, Appli	759	175.4	6.4	18069	4	US-09-740-028A-3	Sequence 3, Appli
C 687	177	6.4	56516	4	US-09-218-207-1	Sequence 1, Appli	760	175.4	6.4	43069	4	US-09-292-542A-1	Sequence 1, Appli
C 688	177	6.4	56520	3	US-09-338-907-179	Sequence 179, App	C 761	175.2	6.4	434	4	US-09-621-976-10150	Sequence 10150, A
C 689	177	6.4	56520	4	US-09-218-207-179	Sequence 179, App	C 762	175.2	6.4	2002	2	US-08-747-121-1	Sequence 1, Appli
C 690	176.8	6.4	309	4	US-09-621-976-7944	Sequence 7944, Ap	C 763	175.2	6.4	20674	4	US-09-641-638-651	Sequence 651, App
C 691	176.8	6.4	464	4	US-09-621-976-9418	Sequence 9418, Ap	C 764	175	6.4	376	4	US-09-621-976-12614	Sequence 12614, A
C 692	176.8	6.4	2555	2	US-08-960-022-15	Sequence 15, Appl	C 765	175	6.4	1001	4	US-09-671-317-159	Sequence 159, App
C 693	176.8	6.4	2598	4	US-09-026-033-18	Sequence 18, Appl	C 766	175	6.4	1287	4	US-09-564-805-217	Sequence 217, Appl
C 694	176.8	6.4	3001	4	US-09-539-333D-222	Sequence 222, App	C 767	175	6.4	2649	2	US-08-718-964-1	Sequence 1, Appli
C 695	176.8	6.4	3233	3	US-08-755-587-43	Sequence 43, Appl	C 768	175	6.4	2649	2	US-09-059-964A-1	Sequence 1, Appli
C 696	176.8	6.4	24707	4	US-09-740-027-3	Sequence 3, Appli	C 769	175	6.4	3129	4	US-08-842-341-1	Sequence 9, Appli
C 697	176.8	6.4	99916	4	US-09-816-095-3	Sequence 3, Appli	C 770	175	6.4	3129	4	US-10-045-428A-9	Sequence 2, Appli
C 698	176.6	6.4	315	4	US-09-621-976-8527	Sequence 8527, Ap	C 771	175	6.4	5984	3	US-09-705-872-2	Sequence 15, Appl
C 699	176.6	6.4	316	4	US-09-621-976-7949	Sequence 7949, Ap	C 772	175	6.4	40352	4	US-08-846-111D-15	Sequence 15, Appl
C 700	176.6	6.4	1001	4	US-09-641-638-406	Sequence 406, App	C 773	175	6.4	40352	4	US-09-443-077-15	Sequence 17, Appl
C 701	176.6	6.4	1323	4	US-08-983-502-15	Sequence 15, Appl	C 774	174.8	6.4	176373	3	US-09-128-155-17	Sequence 17, Appl
C 702	176.6	6.4	1323	4	US-09-516-747-15	Sequence 15, Appl	C 775	174.8	6.4	678	4	US-09-205-258-187	Sequence 187, App
C 703	176.6	6.4	1323	5	PCT-US96-10521-15	Sequence 15, Appl	C 776	174.8	6.4	3001	4	US-09-539-333D-223	Sequence 223, App
C 704	176.6	6.4	2619	4	US-08-983-502-17	Sequence 17, Appl	C 777	174.8	6.4	3001	4	US-09-539-333D-223	Sequence 224, App
C 705	176.6	6.4	2619	4	US-09-516-747-17	Sequence 17, Appl	C 778	174.8	6.4	3267	2	US-08-257-963B-12	Sequence 12, Appl
C 706	176.6	6.4	2619	5	PCT-US96-10521-17	Sequence 17, Appl	C 779	174.8	6.4	3267	2	US-08-367-841A-12	Sequence 12, Appl
C 707	176.6	6.4	2887	4	US-08-983-502-14	Sequence 14, Appl	C 780	174.8	6.4	3267	5	PCT-US95-07201-12	Sequence 12, Appl
C 708	176.6	6.4	2887	4	US-09-516-747-14	Sequence 14, Appl	C 781	174.8	6.4	6709	3	US-09-285-601-3	Sequence 3, Appli
C 709	176.6	6.4	2887	5	PCT-US96-10521-14	Sequence 14, Appl	C 782	174.8	6.4	10684	3	US-08-618-100B-3	Sequence 3, Appli
C 710	176.6	6.4	28001	4	US-09-819-993-3	Sequence 3, Appli	C 783	174.6	6.4	394	4	US-09-621-976-11726	Sequence 11726, A
C 711	176.6	6.4	28001	4	US-10-193-295-3	Sequence 3, Appli	C 784	174.6	6.4	420	4	US-09-621-976-12142	Sequence 12142, A
C 712	176.6	6.4	28720	4	US-09-341-587-7	Sequence 7, Appli	C 785	174.6	6.4	713	4	US-08-943-607-26	Sequence 26, Appl
C 713	176.6	6.4	304	4	US-09-621-976-13308	Sequence 13308, A	C 786	174.6	6.4	1442	2	US-08-454-557C-120	Sequence 120, App
C 714	176.4	6.4	472	4	US-09-621-976-16698	Sequence 16698, A	C 787	174.6	6.4	1442	2	US-08-340-426D-120	Sequence 120, App
C 715	176.4	6.4	3441	4	US-09-026-033-17	Sequence 17, Appl	C 788	174.6	6.4	1442	2	US-08-450-673C-120	Sequence 120, App
C 716	176.4	6.4	7720	3	US-09-318-448-5	Sequence 5, Appli	C 789	174.6	6.4	6470	4	US-09-620-312D-255	Sequence 255, App
C 717	176.4	6.4	17041	1	US-08-076-011-1	Sequence 1, Appli	C 790	174.6	6.4	74962	4	US-09-685-853A-3	Sequence 3, Appli
C 718	176.4	6.4	21721	4	US-09-269-339A-41	Sequence 41, Appl	C 791	174.4	6.3	294	4	US-09-621-976-12041	Sequence 12041, A
C 719	176.4	6.4	22976	4	US-09-269-339A-19	Sequence 19, Appl	C 792	174.4	6.3	314	4	US-09-621-976-11579	Sequence 11579, A
C 720	176.4	6.4	23187	4	US-09-499-522-1	Sequence 1, Appli	C 793	174.4	6.3	314	4	US-09-621-976-11852	Sequence 11852, A
C 721	176.2	6.4	350	4	US-09-621-976-11404	Sequence 11404, A	C 794	174.4	6.3	314	4	US-09-621-976-11976	Sequence 11976, A
C 722	176.2	6.4	488	4	US-09-621-976-11408	Sequence 11408, A	C 795	174.4	6.3	314	4	US-09-621-976-12248	Sequence 12248, A
C 723	176.2	6.4	866	4	US-09-257-179-11	Sequence 11, Appl	C 796	174.4	6.3	314	4	US-09-621-976-12329	Sequence 12329, A
C 724	176.2	6.4	1001	4	US-09-671-317-170	Sequence 170, App	C 797	174.4	6.3	314	4	US-09-621-976-12428	Sequence 12428, A
C 725	176.2	6.4	4853	3	US-08-881-450A-22	Sequence 22, Appl	C 798	174.4	6.3	315	4	US-09-621-976-12033	Sequence 12033, A
C 726	176	6.4	1867	3	US-08-943-731-111	Sequence 111, App	C 799	174.4	6.3	316	4	US-09-621-976-11973	Sequence 11973, A
C 727	176	6.4	1946	4	US-09-620-312D-462	Sequence 462, App	C 800	174.4	6.3	349	4	US-09-621-976-15054	Sequence 15054, A
C 728	176	6.4	11811	3	US-09-078-294-7	Sequence 7, Appli	C 801	174.4	6.3	464	4	US-09-621-976-1690	Sequence 1690, Ap
C 729	176	6.4	24183	3	US-08-943-731-3	Sequence 3, Appli	C 802	174.4	6.3	12565	3	US-09-345-217-3	Sequence 3, Appli
C 730	175.8	6.4	313	4	US-09-621-976-7927	Sequence 7927, Ap	C 803	174.2	6.3	531	4	US-09-404-879A-24	Sequence 24, Appl
C 731	175.8	6.4	313	4	US-09-621-976-7929	Sequence 7929, Ap	C 804	174.2	6.3	531	4	US-09-338-933-24	Sequence 24, Appl
C 732	175.8	6.4	358	4	US-09-621-976-13414	Sequence 13414, A	C 805	174.2	6.3	531	4	US-09-215-681-24	Sequence 24, Appl
C 733	175.8	6.4	454	4	US-09-621-976-15258	Sequence 15258, A	C 806	174.2	6.3	531	4	US-09-216-003A-24	Sequence 24, Appl
C 734	175.8	6.4	532	4	US-09-621-976-3687	Sequence 3687, Ap	C 807	174.2	6.3	955	4	US-09-620-312D-228	Sequence 228, App
C 735	175.8	6.4	1001	4	US-09-671-317-185	Sequence 185, App	C 808	174.2	6.3	3460	4	US-09-904-615-44	Sequence 44, Appl
C 736	175.8	6.4	1001	4	US-09-671-317-455	Sequence 455, App	C 809	174	6.3	365	4	US-09-621-976-14699	Sequence 14699, A
C 737	175.8	6.4	2561	4	US-09-270-542-101	Sequence 101, App	C 810	174	6.3	471	4	US-09-621-976-3307	Sequence 3307, Ap
C 738	175.8	6.4	2561	4	US-09-270-542-119	Sequence 119, App	C 811	174	6.3	1386	2	US-08-687-080-76	Sequence 76, Appl
C 739	175.8	6.4	3507	1	US-08-832-983-67	Sequence 67, Appl	C 812	174	6.3	2721	3	US-08-921-195-1	Sequence 1, Appli
C 740	175.8	6.4	3507	2	US-08-832-987-67	Sequence 67, Appl	C 813	174	6.3	8220	4	US-09-797-908-3	Sequence 3, Appli
C 741	175.8	6.4	14759	4	US-09-661-887-1	Sequence 1, Appli	C 814	174	6.3	15418	4	US-09-783-203-1	Sequence 1, Appli
C 742	175.6	6.4	1220	3	US-09-227-357-54	Sequence 54, Appl	C 815	174	6.3	11182	4	US-09-754-250-3	Sequence 3, Appli
C 743	175.6	6.4	1260	3	US-08-943-731-169	Sequence 169, App	C 816	173.8	6.3	489	4	US-09-621-976-17265	Sequence 17265, A
C 744	175.6	6.4	2505	4	US-09-907-794A-176	Sequence 176, App	C 817	173.8	6.3	490	4	US-09-621-976-2063	Sequence 2063, Ap
C 745	175.6	6.4	2505	4	US-09-905-125A-176	Sequence 176, App	C 818	173.8	6.3	498	4	US-09-621-976-14540	Sequence 14540, A
C 746	175.6	6.4	2505	4	US-09-902-775A-176	Sequence 176, App	C 819	173.8	6.3	2280	4	US-09-702-705-321	Sequence 321, App
C 747	175.6	6.4	2741	1	US-08-832-983-59	Sequence 59, Appl	C 820	173.8	6.3	2280	4	US-09-736-457-321	Sequence 321, App
C 748	175.6	6.4	2741	2	US-08-832-987-59	Sequence 59, Appl	C 821	173.8	6.3	2280	4	US-09-671-325-321	Sequence 321, App
C 749	175.6	6.4	8981	4	US-09-526-193A-20	Sequence 20, Appl	C 822	173.8	6.3	2280	4	US-09-589-184-321	Sequence 321, App
C 750	175.6	6.4	593	3	US-09-621-976-10389	Sequence 10389, A	C 824	173.8	6.3	4169	4	US-09-166-350-32	Sequence 32, Appl
C 751	175.4	6.4	609	3	US-09-385-982-237	Sequence 237, App	C 825	173.6	6.3	289	2	US-08-481-658B-63	Sequence 63, Appl
C 752	175.4	6.4	1024	4	US-09-388-475C-51	Sequence 51, Appl	C 826	173.6	6.3	289	2	US-08-477-504A-63	Sequence 63, Appl
C 753	175.4	6.4	1294	4	US-09-904-615-26	Sequence 26, Appl	C 827	173.6	6.3	289	2	US-08-486-756A-63	Sequence 63, Appl
C 754	175.4	6.4	13158	2	US-08-687-080-105	Sequence 105, App	C 828	173.6	6.3	289	2	US-08-485-862B-63	Sequence 63, Appl
C 755	175.4	6.4	18596	3	US-09-318-448-11	Sequence 11, Appl	C 829	173.6	6.3	289	3	US-08-787-739-63	Sequence 63, Appl
C 756	175.4	6.4	18597	4	US-09-962-665-8	Sequence 8, Appli	C 830	173.6	6.3	289	3	US-08-487-077A-63	Sequence 63, Appl

C 831	173.6	6.3	289	3	US-08-485-863A-63	Sequence 63, Appl	C 904	172	6.3	8392	1	US-08-080-255-6	Sequence 6, Appl
C 832	173.6	6.3	289	3	US-08-485-049D-63	Sequence 63, Appl	C 905	172	6.3	8392	3	US-08-465-713-6	Sequence 6, Appl
C 833	173.6	6.3	289	3	US-09-178-115-63	Sequence 63, Appl	C 906	172	6.3	8392	5	PCT-US93-05857-6	Sequence 6, Appl
C 834	173.6	6.3	289	3	US-09-177-776-63	Sequence 63, Appl	C 907	172	6.3	26000	4	US-09-843-376-10	Sequence 10, Appl
C 835	173.6	6.3	357	4	US-09-621-976-1675	Sequence 1675, Ap	C 908	172	6.3	169998	4	US-09-676-610B-24	Sequence 24, Appl
C 836	173.6	6.3	404	4	US-09-621-976-18360	Sequence 18360, A	C 909	172	6.3	197496	4	US-09-877-177A-10	Sequence 10, Appl
C 837	173.6	6.3	1351	4	US-09-205-258-104	Sequence 104, App	C 910	171.8	6.2	1232	4	US-09-345-293-1	Sequence 1, Appl
C 838	173.6	6.3	9844	3	US-08-462-437-30	Sequence 30, Appl	C 911	171.8	6.2	2559	2	US-08-866-152-4	Sequence 1, Appl
C 839	173.6	6.3	12847	1	US-08-550-715-1	Sequence 1, Appl	C 912	171.8	6.2	2559	2	US-09-196-222-4	Sequence 4, Appl
C 840	173.6	6.3	15788	4	US-09-920-759-13	Sequence 13, Appl	C 913	171.8	6.2	7705	2	US-08-687-080-115	Sequence 115, App
C 841	173.4	6.3	302	2	US-08-849-701-3	Sequence 3, Appl	C 914	171.8	6.2	15418	4	US-09-783-203-1	Sequence 1, Appl
C 842	173.4	6.3	345	3	US-09-385-982-164	Sequence 164, App	C 915	171.8	6.2	148567	4	US-09-801-876B-3	Sequence 3, Appl
C 843	173.4	6.3	375	4	US-09-621-976-11399	Sequence 11399, A	C 916	171.8	6.2	148567	4	US-10-254-869-3	Sequence 3, Appl
C 844	173.4	6.3	547	4	US-09-621-976-16182	Sequence 16182, A	C 917	171.6	6.2	289	4	US-09-621-976-12326	Sequence 13226, A
C 845	173.4	6.3	951	4	US-09-636-215-570	Sequence 570, App	C 918	171.6	6.2	307	4	US-09-621-976-11929	Sequence 11929, A
C 846	173.4	6.3	951	4	US-09-685-166A-570	Sequence 570, App	C 919	171.6	6.2	318	4	US-09-621-976-12355	Sequence 12355, A
C 847	173.4	6.3	1301	4	US-08-983-502-19	Sequence 19, Appl	C 920	171.6	6.2	402	4	US-09-621-976-13833	Sequence 13833, A
C 848	173.4	6.3	1301	4	US-09-516-747-19	Sequence 19, Appl	C 921	171.6	6.2	530	4	US-09-621-976-12823	Sequence 12823, A
C 849	173.4	6.3	1301	5	PCT-US96-10521-19	Sequence 19, Appl	C 922	171.6	6.2	2236	3	US-08-829-525-23	Sequence 23, Appl
C 850	173.4	6.3	1443	4	US-08-983-502-33	Sequence 33, Appl	C 923	171.6	6.2	2236	3	US-08-609-583A-23	Sequence 23, Appl
C 851	173.4	6.3	1443	4	US-09-516-747-33	Sequence 33, Appl	C 924	171.6	6.2	2236	3	US-08-937-399-23	Sequence 23, Appl
C 852	173.4	6.3	1443	5	PCT-US96-10521-33	Sequence 33, Appl	C 925	171.6	6.2	2236	4	US-09-310-367-23	Sequence 23, Appl
C 853	173.4	6.3	2172	4	US-09-685-166A-880	Sequence 880, App	C 926	171.6	6.2	2236	4	US-09-032-337-23	Sequence 23, Appl
C 854	173.4	6.3	3001	4	US-09-539-333D-155	Sequence 155, App	C 927	171.6	6.2	2236	4	US-09-464-231-23	Sequence 23, Appl
C 855	173.4	6.3	8779	2	US-08-750-703-4	Sequence 4, Appl	C 928	171.6	6.2	2334	4	US-09-493-565-1	Sequence 1, Appl
C 856	173.4	6.3	13158	2	US-08-687-080-105	Sequence 105, App	C 929	171.6	6.2	17327	1	US-07-906-871-15	Sequence 15, Appl
C 857	173.4	6.3	51719	4	US-09-918-686-2	Sequence 2, Appl	C 930	171.4	6.2	362	4	US-09-621-976-15415	Sequence 15415, A
C 858	173.2	6.3	316	4	US-09-621-976-11932	Sequence 11932, A	C 931	171.4	6.2	409	4	US-09-621-976-10551	Sequence 10551, A
C 859	173.2	6.3	1001	4	US-09-671-317-450	Sequence 450, App	C 932	171.4	6.2	433	4	US-09-621-976-15363	Sequence 15363, A
C 860	173.2	6.3	4741	1	US-07-695-472B-4	Sequence 4, Appl	C 933	171.4	6.2	713	4	US-08-943-607-25	Sequence 25, Appl
C 861	173.2	6.3	4741	1	US-09-106-375-4	Sequence 4, Appl	C 934	171.4	6.2	1300	2	US-08-474-020A-13	Sequence 13, Appl
C 862	173.2	6.3	4742	1	US-08-250-740-35	Sequence 35, Appl	C 935	171.4	6.2	1926	3	US-09-117-250-4	Sequence 4, Appl
C 863	173.2	6.3	4768	4	US-09-526-193A-16	Sequence 16, Appl	C 936	171.2	6.2	263	4	US-09-621-976-12632	Sequence 12632, A
C 864	173.2	6.3	7720	3	US-09-318-448-5	Sequence 5, Appl	C 937	171.2	6.2	263	4	US-09-621-976-12804	Sequence 12804, A
C 865	173.2	6.3	9734	3	US-09-347-114A-80	Sequence 80, Appl	C 938	171.2	6.2	263	4	US-09-621-976-13148	Sequence 13148, A
C 866	173.2	6.3	19011	1	US-08-310-356-36	Sequence 36, Appl	C 939	171.2	6.2	412	4	US-09-621-976-15301	Sequence 15301, A
C 867	173.2	6.3	19557	5	PCT-US92-06300-1	Sequence 1, Appl	C 940	171.2	6.2	448	4	US-09-621-976-9219	Sequence 9219, Ap
C 868	173.2	6.3	32042	4	US-09-245-281-44	Sequence 44, Appl	C 941	171.2	6.2	456	4	US-09-621-976-1688	Sequence 1688, Ap
C 869	173.2	6.3	32042	4	US-09-340-620A-63	Sequence 63, Appl	C 942	171.2	6.2	577	4	US-09-621-976-11500	Sequence 11500, A
C 870	173	6.3	301	4	US-09-621-976-14415	Sequence 14415, A	C 943	171.2	6.2	655	3	US-09-385-982-301	Sequence 301, App
C 871	173	6.3	356	4	US-09-621-976-9729	Sequence 9729, Ap	C 944	171.2	6.2	3535	2	US-08-618-408B-1	Sequence 1, Appl
C 872	173	6.3	449	4	US-09-621-976-16908	Sequence 16908, A	C 945	171	6.2	372	4	US-09-621-976-12089	Sequence 12089, A
C 873	173	6.3	713	4	US-08-943-607-23	Sequence 23, Appl	C 946	171	6.2	450	4	US-09-621-976-15324	Sequence 15324, A
C 874	173	6.3	713	4	US-08-943-607-24	Sequence 24, Appl	C 947	171	6.2	1160	4	US-09-016-434-1325	Sequence 1325, Ap
C 875	173	6.3	1804	1	US-08-306-691B-40	Sequence 40, Appl	C 948	171	6.2	1160	4	US-09-023-655-1321	Sequence 1321, Ap
C 876	173	6.3	1804	4	US-09-167-322-14	Sequence 14, Appl	C 949	171	6.2	4793	1	US-09-561-497-10	Sequence 10, Appl
C 877	173	6.3	1804	5	PCT-US93-06251-82	Sequence 82, Appl	C 950	171	6.2	6990	4	US-09-620-312D-155	Sequence 155, App
C 878	173	6.3	49136	3	US-09-422-869-1	Sequence 1, Appl	C 951	170.8	6.2	1764	4	US-09-620-312D-548	Sequence 548, App
C 879	172.8	6.3	314	4	US-09-621-976-12004	Sequence 12004, A	C 952	170.8	6.2	2328	4	US-09-016-434-1188	Sequence 1188, Ap
C 880	172.8	6.3	317	4	US-09-621-976-11907	Sequence 11907, A	C 953	170.8	6.2	2328	4	US-09-023-655-1018	Sequence 1018, Ap
C 881	172.8	6.3	930	4	US-09-227-357-146	Sequence 146, App	C 954	170.8	6.2	11298	1	US-07-869-933-31	Sequence 31, Appl
C 882	172.6	6.3	306	4	US-09-621-976-11914	Sequence 11914, A	C 955	170.8	6.2	11298	3	US-08-201-879A-2	Sequence 2, Appl
C 883	172.6	6.3	317	4	US-09-621-976-12081	Sequence 12081, A	C 956	170.8	6.2	11298	3	US-09-103-663-31	Sequence 31, Appl
C 884	172.6	6.3	338	4	US-09-621-976-12808	Sequence 12808, A	C 957	170.6	6.2	295	4	US-09-621-976-14332	Sequence 14332, A
C 885	172.6	6.3	2070	4	US-09-620-312D-958	Sequence 958, App	C 958	170.6	6.2	317	4	US-09-621-976-11513	Sequence 11513, A
C 886	172.6	6.3	2676	1	US-08-471-570-7	Sequence 7, Appl	C 959	170.6	6.2	335	4	US-09-621-976-12794	Sequence 12794, A
C 887	172.6	6.3	3804	4	US-08-999-689A-1	Sequence 1, Appl	C 960	170.6	6.2	393	4	US-09-621-976-16149	Sequence 16149, A
C 888	172.6	6.3	393	4	US-09-167-109-5	Sequence 5, Appl	C 961	170.6	6.2	443	4	US-09-621-976-14389	Sequence 14389, A
C 889	172.6	6.3	4576	1	US-08-832-883-49	Sequence 49, Appl	C 962	170.6	6.2	889	1	US-08-832-883-52	Sequence 52, Appl
C 890	172.6	6.3	4576	2	US-08-832-877-49	Sequence 49, Appl	C 963	170.6	6.2	889	2	US-08-832-877-52	Sequence 52, Appl
C 891	172.6	6.3	11811	3	US-09-078-294-7	Sequence 7, Appl	C 964	170.6	6.2	2886	2	US-08-687-080-55	Sequence 55, Appl
C 892	172.6	6.3	26016	3	US-09-326-480A-1	Sequence 1, Appl	C 965	170.4	6.2	373	4	US-09-621-976-12147	Sequence 12147, A
C 893	172.4	6.3	337	4	US-09-621-976-12733	Sequence 12733, A	C 966	170.4	6.2	1167	4	US-09-663-600A-141	Sequence 141, App
C 894	172.4	6.3	930	4	US-09-227-357-61	Sequence 61, Appl	C 967	170.4	6.2	1370	4	US-09-663-600A-47	Sequence 47, Appl
C 895	172.4	6.3	2455	3	US-08-406-030A-4	Sequence 4, Appl	C 968	170.4	6.2	1460	4	US-09-257-179-23	Sequence 23, Appl
C 896	172.4	6.3	12394	4	US-09-488-856A-10	Sequence 10, Appl	C 969	170.4	6.2	9862	4	US-09-631-861A-3	Sequence 3, Appl
C 897	172.4	6.3	18000	4	US-09-657-346A-17	Sequence 17, Appl	C 970	170.2	6.2	454	4	US-09-621-976-18052	Sequence 18052, A
C 898	172.2	6.3	8835	3	US-08-884-324-10	Sequence 10, Appl	C 971	170.2	6.2	2125	3	US-09-305-639-6	Sequence 6, Appl
C 899	172.2	6.3	15602	4	US-09-844-634-17	Sequence 17, Appl	C 972	170.2	6.2	2923	3	US-08-480-449-1	Sequence 1, Appl
C 900	172.2	6.3	28994	3	US-08-884-324-14	Sequence 14, Appl	C 973	170.2	6.2	2923	2	US-08-560-542-1	Sequence 1, Appl
C 901	172	6.3	440	4	US-09-621-976-15135	Sequence 15135, A	C 974	170.2	6.2	2923	4	US-08-479-603-1	Sequence 1, Appl
C 902	172	6.3	460	4	US-09-918-686-26	Sequence 26, Appl	C 975	170.2	6.2	2923	4	US-08-939-107-1	Sequence 1, Appl
C 903	172	6.3	3844	4	US-09-689-423-1	Sequence 1, Appl	C 976	170.2	6.2	2923	4	US-08-931-764-1	Sequence 1, Appl

977	170.2	6.2	2923	4	US-09-591-992-1	Sequence 1, Appli	Sequence 1, Appli	ci1050	168.8	6.1	10545	4	US-09-526-193A-14	Sequence 14, Appli
978	170.2	6.2	2927	3	US-09-232-878-5	Sequence 5, Appli	Sequence 5, Appli	ci051	168.6	6.1	281	4	US-09-621-976-11890	Sequence 11890, A
979	170.2	6.2	2941	3	US-09-889-914B-1	Sequence 1, Appli	Sequence 1, Appli	ci052	168.6	6.1	290	4	US-09-621-976-11889	Sequence 11889, A
980	170.2	6.2	5023	4	US-09-526-193A-28	Sequence 28, Appli	Sequence 28, Appli	ci053	168.6	6.1	303	4	US-09-621-976-11730	Sequence 11730, A
981	170.2	6.2	6038	3	US-09-305-639-4	Sequence 4, Appli	Sequence 4, Appli	ci054	168.6	6.1	320	1	US-08-629-939-5	Sequence 5, Appli
982	170.2	6.2	6038	4	US-09-525-1608-2	Sequence 2, Appli	Sequence 2, Appli	ci055	168.6	6.1	320	1	US-08-759-873-5	Sequence 5, Appli
983	170.2	6.2	7622	3	US-09-305-639-1	Sequence 1, Appli	Sequence 1, Appli	ci056	168.6	6.1	358	3	US-08-991-789A-168	Sequence 168, App
984	170.2	6.2	7622	4	US-09-525-1608-1	Sequence 1, Appli	Sequence 1, Appli	ci057	168.6	6.1	358	4	US-09-062-451-168	Sequence 168, App
985	170.2	6.2	7680	4	US-09-210-748A-3	Sequence 3, Appli	Sequence 3, Appli	ci058	168.6	6.1	358	4	US-09-598-326-168	Sequence 168, App
986	170	6.2	317	4	US-09-621-976-11530	Sequence 11530, A	Sequence 11530, A	ci059	168.6	6.1	358	4	US-09-289-198-168	Sequence 168, App
987	170	6.2	538	4	US-09-621-976-14167	Sequence 14167, A	Sequence 14167, A	ci060	168.6	6.1	358	4	US-09-429-755-168	Sequence 168, App
988	170	6.2	1001	4	US-09-671-317-184	Sequence 184, App	Sequence 184, App	ci061	168.6	6.1	474	4	US-09-621-976-13151	Sequence 13151, A
989	170	6.2	2415	3	US-09-019-689-1	Sequence 1, Appli	Sequence 1, Appli	ci062	168.6	6.1	1001	4	US-09-671-317-237	Sequence 237, App
990	170	6.2	8224	2	US-09-010-398-14	Sequence 14, Appli	Sequence 14, Appli	ci063	168.6	6.1	1083	4	US-09-716-129-30	Sequence 30, Appli
991	170	6.2	8224	3	US-09-366-260-14	Sequence 14, Appli	Sequence 14, Appli	ci064	168.6	6.1	4517	3	US-09-140-804-9	Sequence 9, Appli
992	169.8	6.2	351	4	US-09-621-976-9805	Sequence 9805, Ap	Sequence 9805, Ap	ci065	168.6	6.1	4517	4	US-09-686-838B-9	Sequence 9, Appli
993	169.8	6.2	853	4	US-09-621-976-17176	Sequence 17176, A	Sequence 17176, A	ci066	168.6	6.1	4517	4	US-09-776-976-5	Sequence 5, Appli
994	169.8	6.2	4428	4	US-09-023-655-1109	Sequence 1109, Ap	Sequence 1109, Ap	ci067	168.6	6.1	4517	4	US-09-909-547-5	Sequence 5, Appli
995	169.8	6.2	38844	4	US-09-734-675-3	Sequence 3, Appli	Sequence 3, Appli	ci068	168.6	6.1	12847	1	US-08-550-715-1	Sequence 1, Appli
996	169.6	6.2	302	4	US-09-621-976-12269	Sequence 12269, A	Sequence 12269, A	ci069	168.6	6.1	41100	4	US-09-755-665-46	Sequence 46, Appli
997	169.6	6.2	307	4	US-09-621-976-12159	Sequence 12159, A	Sequence 12159, A	ci070	168.4	6.1	419	4	US-09-621-976-13557	Sequence 13557, A
998	169.6	6.2	373	4	US-09-621-976-14426	Sequence 14426, A	Sequence 14426, A	ci071	168.4	6.1	459	4	US-09-621-976-13467	Sequence 13467, A
999	169.6	6.2	409	4	US-09-621-976-7840	Sequence 7840, Ap	Sequence 7840, Ap	ci072	168.4	6.1	554	4	US-09-227-357-111	Sequence 111, App
c1000	169.6	6.2	688	6	5498694-3	Patent No. 5498694	Patent No. 5498694	ci073	168.4	6.1	1268	4	US-09-369-247-42	Sequence 42, Appli
c1001	169.6	6.2	956	4	US-09-641-638-56	Sequence 56, Appli	Sequence 56, Appli	ci074	168.4	6.1	4517	5	US-09-470-881-7	Sequence 7, Appli
1002	169.6	6.2	1001	4	US-09-641-638-78	Sequence 78, Appli	Sequence 78, Appli	ci075	168.4	6.1	4517	3	PCT-US93-06251-83	Sequence 83, Appli
1003	169.6	6.2	1821	4	US-09-305-258-43	Sequence 43, Appli	Sequence 43, Appli	ci076	168.4	6.1	4773	3	US-08-884-324-9	Sequence 9, Appli
1004	169.6	6.2	3001	4	US-09-539-3330-151	Sequence 151, App	Sequence 151, App	ci077	168.4	6.1	11464	3	US-08-884-324-13	Sequence 13, Appli
1005	169.6	6.2	12597	4	US-09-705-299-12	Sequence 12, Appli	Sequence 12, Appli	ci078	168.2	6.1	301	4	US-09-621-976-11649	Sequence 11649, A
c1006	169.6	6.2	168575	4	US-09-426-290-1	Sequence 1, Appli	Sequence 1, Appli	ci079	168.2	6.1	345	4	US-09-621-976-11512	Sequence 11512, A
c1007	169.4	6.2	242	4	US-09-621-976-7827	Sequence 7827, Ap	Sequence 7827, Ap	ci080	168.2	6.1	378	4	US-09-621-976-8379	Sequence 8379, Ap
c1008	169.4	6.2	372	4	US-09-621-976-12192	Sequence 12192, A	Sequence 12192, A	ci081	168.2	6.1	466	4	US-09-621-976-18219	Sequence 18219, A
c1009	169.4	6.2	372	4	US-09-621-976-12283	Sequence 12283, A	Sequence 12283, A	ci082	168.2	6.1	705	2	US-09-328-475C-262	Sequence 262, App
c1010	169.4	6.2	488	4	US-09-621-976-12843	Sequence 12843, A	Sequence 12843, A	ci083	168.2	6.1	1174	2	US-08-481-658B-39	Sequence 39, Appli
c1011	169.4	6.2	509	4	US-09-641-638-629	Sequence 629, Appli	Sequence 629, Appli	ci084	168.2	6.1	1174	2	US-08-477-504A-39	Sequence 39, Appli
1012	169.4	6.2	509	4	US-08-616-392C-3	Sequence 3, Appli	Sequence 3, Appli	ci085	168.2	6.1	1174	2	US-08-485-756A-39	Sequence 39, Appli
1013	169.4	6.2	5035	2	US-09-009-217-11	Sequence 11, Appli	Sequence 11, Appli	ci086	168.2	6.1	1174	2	US-08-485-862B-39	Sequence 39, Appli
1014	169.4	6.2	13865	3	US-09-009-217-11	Sequence 11, Appli	Sequence 11, Appli	ci087	168.2	6.1	1174	3	US-08-787-739-39	Sequence 39, Appli
c1016	169.4	6.2	26684	4	US-09-564-805-28	Sequence 28, Appli	Sequence 28, Appli	ci088	168.2	6.1	1174	3	US-08-487-077A-39	Sequence 39, Appli
c1017	169.2	6.2	302	4	US-09-621-976-11752	Sequence 11752, A	Sequence 11752, A	ci089	168.2	6.1	1174	3	US-08-485-863A-39	Sequence 39, Appli
c1018	169.2	6.2	303	4	US-09-621-976-11529	Sequence 11529, A	Sequence 11529, A	ci090	168.2	6.1	1174	3	US-08-485-049D-39	Sequence 39, Appli
c1019	169.2	6.2	304	4	US-09-621-976-12186	Sequence 12186, A	Sequence 12186, A	ci091	168.2	6.1	1174	3	US-09-178-115-39	Sequence 39, Appli
c1020	169.2	6.2	304	4	US-09-621-976-12188	Sequence 12188, A	Sequence 12188, A	ci092	168.2	6.1	1174	3	US-09-177-776-39	Sequence 39, Appli
c1021	169.2	6.2	306	4	US-09-621-976-11538	Sequence 11538, A	Sequence 11538, A	ci093	168.2	6.1	3101	4	US-09-602-877A-97	Sequence 97, Appli
c1022	169.2	6.2	418	4	US-09-621-976-8984	Sequence 8984, Ap	Sequence 8984, Ap	ci094	168.2	6.1	4545	2	US-09-569-852B-5	Sequence 5, Appli
c1023	169.2	6.2	479	4	US-09-621-976-12796	Sequence 12796, A	Sequence 12796, A	ci095	168.2	6.1	10898	2	US-08-481-658B-5	Sequence 5, Appli
c1024	169.2	6.2	6719	4	US-09-740-235-36	Sequence 36, Appli	Sequence 36, Appli	ci096	168.2	6.1	10898	2	US-08-477-504A-5	Sequence 5, Appli
c1025	169.2	6.2	15328	2	US-08-888-497-33	Sequence 33, Appli	Sequence 33, Appli	ci097	168.2	6.1	10898	2	US-08-486-756A-5	Sequence 5, Appli
c1026	169.2	6.2	15328	4	US-09-362-230-33	Sequence 33, Appli	Sequence 33, Appli	ci098	168.2	6.1	10898	3	US-08-485-862B-5	Sequence 5, Appli
c1027	169.2	6.2	15328	5	PCT-US94-07926-33	Sequence 33, Appli	Sequence 33, Appli	ci099	168.2	6.1	10898	3	US-08-787-739-5	Sequence 5, Appli
c1028	169	6.1	370	4	US-09-621-976-13486	Sequence 13486, A	Sequence 13486, A	ci100	168.2	6.1	10898	3	US-08-487-077A-5	Sequence 5, Appli
c1029	169	6.1	371	4	US-09-621-976-11983	Sequence 11983, A	Sequence 11983, A	ci101	168.2	6.1	10898	3	US-08-485-863A-5	Sequence 5, Appli
c1030	169	6.1	371	4	US-09-621-976-12170	Sequence 12170, A	Sequence 12170, A	ci102	168.2	6.1	10898	3	US-08-485-049D-5	Sequence 5, Appli
c1031	169	6.1	371	4	US-09-621-976-12176	Sequence 12176, A	Sequence 12176, A	ci103	168.2	6.1	10898	3	US-09-178-115-5	Sequence 5, Appli
c1032	169	6.1	371	4	US-09-621-976-12366	Sequence 12366, A	Sequence 12366, A	ci104	168.2	6.1	10898	3	US-09-177-776-5	Sequence 5, Appli
c1033	169	6.1	555	4	US-09-621-976-18218	Sequence 18218, A	Sequence 18218, A	ci105	168.2	6.1	25464	4	US-09-326-480A-4	Sequence 4, Appli
c1034	169	6.1	2288	4	US-09-023-655-1151	Sequence 1151, Ap	Sequence 1151, Ap	ci106	168	6.1	3742	1	US-08-694-915-5	Sequence 5, Appli
c1035	169	6.1	3011	1	US-07-821-716-1	Sequence 1, Appli	Sequence 1, Appli	ci107	167.8	6.1	455	4	US-09-621-976-9987	Sequence 9987, Ap
c1036	169	6.1	3011	4	US-08-406-824A-5	Sequence 5, Appli	Sequence 5, Appli	ci108	167.8	6.1	1169	4	US-09-027-287-1	Sequence 1, Appli
1037	169	6.1	3748	2	US-08-958-240-1	Sequence 1, Appli	Sequence 1, Appli	ci109	167.8	6.1	1169	4	US-09-252-656B-1	Sequence 1, Appli
c1038	169	6.1	4079	4	US-09-016-434-1219	Sequence 49, Appli	Sequence 49, Appli	ci110	167.8	6.1	1169	4	US-09-523-323-1	Sequence 1, Appli
c1039	169	6.1	4910	4	US-09-023-655-1125	Sequence 1219, Ap	Sequence 1219, Ap	ci111	167.8	6.1	29629	4	US-09-729-995-3	Sequence 3, Appli
c1040	169	6.1	15071	4	US-09-358-082A-29	Sequence 29, Appli	Sequence 29, Appli	ci112	167.8	6.1	29629	4	US-10-135-689-3	Sequence 3, Appli
c1041	169	6.1	16389	4	US-09-741-154-3	Sequence 3, Appli	Sequence 3, Appli	ci113	167.6	6.1	358	4	US-09-621-976-9061	Sequence 9061, Ap
c1042	168.8	6.1	1024	4	US-09-328-475C-75	Sequence 75, Appli	Sequence 75, Appli	ci114	167.6	6.1	473	3	US-09-621-976-9175	Sequence 9175, Ap
c1043	168.8	6.1	1340	4	US-09-461-325-49	Sequence 49, Appli	Sequence 49, Appli	ci115	167.6	6.1	569	3	US-08-943-731-144	Sequence 144, App
c1044	168.8	6.1	1340	4	US-10-012-542-49	Sequence 49, Appli	Sequence 49, Appli	ci116	167.6	6.1	696	4	US-09-740-235-16	Sequence 16, Appli
c1045	168.8	6.1	2373	3	US-08-975-762-45	Sequence 45, Appli	Sequence 45, Appli	ci117	167.6	6.1	2688	2	US-08-909-965C-1	Sequence 1, Appli
c1046	168.8	6.1	2373	3	US-09-295-028-45	Sequence 45, Appli	Sequence 45, Appli	ci118	167.6	6.1	8021	1	US-09-740-235-2	Sequence 2, Appli
c1047	168.8	6.1	2373	4	US-09-106-582-45	Sequence 45, Appli	Sequence 45, Appli	ci119	167.6	6.1	10627	1	US-08-060-925A-12	Sequence 12, Appli
c1048	168.8	6.1	2373	4	US-09-159-469-45	Sequence 45, Appli	Sequence 45, Appli	ci120	167.6	6.1	12222	4	US-09-328-925-42	Sequence 42, Appli
c1049	168.8	6.1	2373	4	US-09-693-542-45	Sequence 45, Appli	Sequence 45, Appli	ci121	167.6	6.1	12394	4	US-09-488-856A-10	Sequence 10, Appli
c1049	168.8	6.1	2373	4	US-09-693-542-45	Sequence 45, Appli	Sequence 45, Appli	ci122	167.6	6.1	24183	3	US-08-943-731-3	Sequence 3, Appli

cl123	167.4	6.1	300	4	US-09-621-976-13350	Sequence 13350, A	cl196	166	6.0	1459	4	US-09-688-489-174	Sequence 174, App
cl124	167.4	6.1	318	4	US-09-621-976-11511	Sequence 11511, A	cl197	166	6.0	2133	3	US-08-808-032-1	Sequence 1, Appl
cl125	167.4	6.1	371	4	US-09-621-976-11828	Sequence 11828, A	cl198	165.8	6.0	522	4	US-09-621-976-2647	Sequence 2647, Ap
cl126	167.4	6.1	431	4	US-09-621-976-15040	Sequence 15040, A	cl199	165.8	6.0	5366	4	US-09-705-872-4	Sequence 4, Appl
cl127	167.4	6.1	1171	4	US-09-918-686-20	Sequence 20, Appl	cl200	165.6	6.0	285	4	US-09-621-976-13561	Sequence 13561, A
cl128	167.4	6.1	1918	4	US-09-599-3608-7	Sequence 7, Appl	cl201	165.6	6.0	386	4	US-09-621-976-8220	Sequence 8220, Ap
cl129	167.4	6.1	1918	4	US-09-599-3608-7	Sequence 60, Appl	cl202	165.6	6.0	463	4	US-09-621-976-8244	Sequence 8244, Ap
cl130	167.4	6.1	2921	3	US-08-618-1008-4	Sequence 4, Appl	cl203	165.6	6.0	1827	2	US-08-737-371A-3	Sequence 3, Appl
cl131	167.4	6.1	13104	3	US-08-256-799-4	Sequence 4, Appl	cl204	165.6	6.0	1827	2	US-08-737-371A-3	Sequence 3, Appl
cl132	167.4	6.1	13104	3	US-08-462-437-4	Sequence 4, Appl	cl205	165.6	6.0	1940	4	PCT-US95-05853-3	Sequence 1468, Ap
cl133	167.4	6.1	35100	1	US-08-306-691B-19	Sequence 19, Appl	cl206	165.6	6.0	4468	4	US-09-620-312D-243	Sequence 243, App
cl134	167.4	6.1	35100	5	PCT-US93-06251-19	Sequence 19, Appl	cl207	165.6	6.0	6330	4	US-09-880-427-2	Sequence 2, Appl
cl135	167.2	6.1	300	4	US-09-621-976-12295	Sequence 12295, A	cl208	165.6	6.0	6330	4	US-09-306-538B-2	Sequence 2, Appl
cl136	167.2	6.1	435	4	US-09-621-976-9179	Sequence 9179, Ap	cl209	165.6	6.0	6623	2	US-08-687-080-68	Sequence 68, Appl
cl137	167.2	6.1	719	4	US-09-227-357-74	Sequence 74, Appl	cl210	165.6	6.0	6623	2	US-09-755-665-46	Sequence 46, Appl
cl138	167.2	6.1	4078	4	US-09-016-434-1109	Sequence 1109, Ap	cl211	165.4	6.0	41100	4	US-09-621-976-17992	Sequence 17992, A
cl139	167	6.1	281	4	US-09-621-976-11595	Sequence 11585, A	cl212	165.4	6.0	419	4	US-09-621-976-14867	Sequence 14867, A
cl140	167	6.1	303	4	US-09-621-976-474	Sequence 474, App	cl213	165.4	6.0	485	4	US-09-621-976-1665	Sequence 1665, Ap
cl141	167	6.1	354	4	US-09-621-976-8798	Sequence 8798, App	cl214	165.4	6.0	1001	4	US-09-671-317-43	Sequence 43, Appl
cl142	167	6.1	370	4	US-09-621-976-13313	Sequence 13313, A	cl215	165.4	6.0	1053	4	US-09-257-179-31	Sequence 31, Appl
cl143	167	6.1	1163	4	US-09-482-273-38	Sequence 38, Appl	cl216	165.4	6.0	2338	4	US-09-620-312D-411	Sequence 411, App
cl144	167	6.1	1200	3	US-09-018-584A-37	Sequence 37, Appl	cl217	165.4	6.0	3001	4	US-09-539-333D-142	Sequence 142, App
cl145	167	6.1	1419	3	US-08-943-731-214	Sequence 214, App	cl218	165.4	6.0	3433	4	US-09-820-924-1	Sequence 1, Appl
cl146	167	6.1	1808	1	US-08-351-149-4	Sequence 4, Appl	cl219	165.4	6.0	3834	4	US-09-620-312D-933	Sequence 933, App
cl147	167	6.1	1808	1	US-08-384-828-4	Sequence 4, Appl	cl220	165.4	6.0	7505	3	US-09-078-294-13	Sequence 13, Appl
cl148	167	6.1	1808	3	US-08-895-474-4	Sequence 4, Appl	cl221	165.4	6.0	13104	3	US-08-256-799-4	Sequence 4, Appl
cl149	167	6.1	6246	3	US-08-943-731-640	Sequence 640, App	cl222	165.4	6.0	13104	3	US-08-462-437-4	Sequence 4, Appl
cl150	166.8	6.1	467	4	US-09-621-976-12583	Sequence 12583, A	cl223	165.2	6.0	325	4	US-09-621-976-12097	Sequence 12097, A
cl151	166.8	6.1	1001	4	US-09-641-638-256	Sequence 256, App	cl224	165.2	6.0	326	4	US-09-621-976-12018	Sequence 12018, A
cl152	166.8	6.1	1547	4	US-09-556-002-16	Sequence 16, Appl	cl225	165.2	6.0	327	4	US-09-621-976-12423	Sequence 12423, A
cl153	166.8	6.1	1768	4	US-09-526-193A-16	Sequence 16, Appl	cl226	165.2	6.0	343	4	US-09-621-976-10158	Sequence 10158, A
cl154	166.8	6.1	17000	4	US-09-679-299A-18	Sequence 18, Appl	cl227	165.2	6.0	361	4	US-09-621-976-12227	Sequence 12227, A
cl155	166.6	6.1	355	4	US-09-621-976-9993	Sequence 9993, Ap	cl228	165.2	6.0	369	4	US-09-621-976-9151	Sequence 9151, Ap
cl156	166.6	6.1	357	4	US-09-621-976-12907	Sequence 12907, A	cl229	165.2	6.0	454	4	US-09-621-976-13213	Sequence 13213, A
cl157	166.6	6.1	456	4	US-09-621-976-1642	Sequence 1642, Ap	cl230	165.2	6.0	509	4	US-09-621-976-3804	Sequence 3804, Ap
cl158	166.6	6.1	472	4	US-09-621-976-17266	Sequence 17266, A	cl231	165.2	6.0	668	3	US-09-347-114A-93	Sequence 93, Appl
cl159	166.6	6.1	488	4	US-09-621-976-1646	Sequence 1646, Ap	cl232	165.2	6.0	799	4	US-09-166-350-11	Sequence 11, Appl
cl160	166.6	6.1	1712	3	US-09-058-389A-12	Sequence 12, Appl	cl233	165.2	6.0	1164	3	US-08-755-587-32	Sequence 32, Appl
cl161	166.6	6.1	1712	4	US-09-611-781-12	Sequence 12, Appl	cl234	165.2	6.0	1875	2	US-08-683-743-3	Sequence 3, Appl
cl162	166.6	6.1	1829	2	US-08-687-080-57	Sequence 57, Appl	cl235	165.2	6.0	3865	1	US-08-832-883-48	Sequence 48, Appl
cl163	166.6	6.1	3070	4	US-09-489-847-29	Sequence 29, Appl	cl236	165.2	6.0	3865	2	US-08-832-877-48	Sequence 48, Appl
cl164	166.6	6.1	3881	4	US-09-333-593A-1	Sequence 1, Appl	cl237	165.2	6.0	8342	3	US-08-545-860B-63	Sequence 63, Appl
cl165	166.6	6.1	4052	2	US-08-833-226-1	Sequence 1, Appl	cl238	165.2	6.0	8342	5	PCT-US94-04496-63	Sequence 63, Appl
cl166	166.6	6.1	6354	3	US-09-058-389A-5	Sequence 5, Appl	cl239	165.2	6.0	38059	4	US-09-328-925-4	Sequence 4, Appl
cl167	166.6	6.1	6354	4	US-09-611-781-5	Sequence 5, Appl	cl240	165	6.0	309	4	US-09-621-976-11427	Sequence 11427, A
cl168	166.6	6.1	13953	4	US-09-738-884-3	Sequence 3, Appl	cl241	165	6.0	491	4	US-09-621-976-1668	Sequence 1668, Ap
cl169	166.4	6.1	298	4	US-09-621-976-13124	Sequence 13124, A	cl242	165	6.0	495	4	US-09-621-976-14765	Sequence 14765, A
cl170	166.4	6.1	348	4	US-09-621-976-17476	Sequence 17476, A	cl243	165	6.0	1407	4	US-09-482-273-32	Sequence 32, Appl
cl171	166.4	6.1	3176	2	US-08-910-733-17	Sequence 17, Appl	cl244	165.6	6.0	5615	4	US-09-302-769-47	Sequence 47, Appl
cl172	166.4	6.1	3176	2	US-08-910-884-17	Sequence 17, Appl	cl245	164.8	6.0	236	4	US-09-621-976-11908	Sequence 11908, A
cl173	166.4	6.1	18400	4	US-09-901-151-3	Sequence 3, Appl	cl246	164.8	6.0	237	4	US-09-621-976-13568	Sequence 13568, A
cl174	166.4	6.1	31571	1	US-08-323-443B-1	Sequence 1, Appl	cl247	164.8	6.0	344	4	US-09-621-976-14485	Sequence 14485, A
cl175	166.2	6.0	364	4	US-09-621-976-11742	Sequence 11742, A	cl248	164.8	6.0	361	4	US-09-621-976-11659	Sequence 11659, A
cl176	166.2	6.0	1001	4	US-09-641-638-175	Sequence 175, App	cl249	164.8	6.0	361	4	US-09-621-976-11895	Sequence 11895, A
cl177	166.2	6.0	2310	1	US-08-471-570-9	Sequence 9, Appl	cl250	164.8	6.0	361	4	US-09-621-976-13543	Sequence 13543, A
cl178	166.2	6.0	3609	4	US-09-705-299-11	Sequence 11, Appl	cl251	164.8	6.0	480	4	US-09-621-976-13863	Sequence 13863, A
cl179	166.2	6.0	10877	4	US-09-674-311-1	Sequence 1, Appl	cl252	164.8	6.0	533	4	US-09-621-976-2144	Sequence 2144, Ap
cl180	166	6.0	376	4	US-09-621-976-12760	Sequence 12760, A	cl253	164.8	6.0	598	3	US-09-385-982-128	Sequence 128, Ap
cl181	166	6.0	1260	1	US-08-599-252-83	Sequence 83, Appl	cl254	164.8	6.0	7152	3	US-09-167-681-29	Sequence 29, Appl
cl182	166	6.0	1260	1	US-08-436-074-56	Sequence 56, Appl	cl255	164.8	6.0	17949	3	US-09-087-465-3	Sequence 3, Appl
cl183	166	6.0	1260	5	PCT-US96-06352-83	Sequence 83, Appl	cl256	164.6	6.0	346	4	US-09-621-976-2559	Sequence 2559, Ap
cl184	166	6.0	1260	5	PCT-US96-06583-83	Sequence 83, Appl	cl257	164.6	6.0	658	4	US-09-621-976-19176	Sequence 19176, A
cl185	166	6.0	1340	4	US-09-461-325-113	Sequence 113, App	cl258	164.6	6.0	1389	4	US-09-904-615-54	Sequence 54, Appl
cl186	166	6.0	1340	4	US-10-012-542-113	Sequence 113, App	cl259	164.6	6.0	3885	1	US-08-688-145-1	Sequence 1, Appl
cl187	166	6.0	1459	3	US-09-020-956-174	Sequence 174, App	cl260	164.6	6.0	10545	4	US-09-526-193A-14	Sequence 14, Appl
cl188	166	6.0	1459	3	US-09-030-607-174	Sequence 174, App	cl261	164.4	6.0	294	2	US-08-481-658B-61	Sequence 61, Appl
cl189	166	6.0	1459	4	US-09-439-313-174	Sequence 174, App	cl262	164.4	6.0	294	2	US-08-477-504A-61	Sequence 61, Appl
cl190	166	6.0	1459	4	US-09-352-616A-174	Sequence 174, App	cl263	164.4	6.0	294	2	US-08-486-756A-61	Sequence 61, Appl
cl191	166	6.0	1459	4	US-09-232-149A-174	Sequence 174, App	cl264	164.4	6.0	294	2	US-08-485-862B-61	Sequence 61, Appl
cl192	166	6.0	1459	4	US-09-159-812-174	Sequence 174, App	cl265	164.4	6.0	294	3	US-08-787-739-61	Sequence 61, Appl
cl193	166	6.0	1459	4	US-09-636-215-174	Sequence 174, App	cl266	164.4	6.0	294	3	US-08-487-077A-61	Sequence 61, Appl
cl194	166	6.0	1459	4	US-09-685-166A-174	Sequence 174, App	cl267	164.4	6.0	294	3	US-08-485-863A-61	Sequence 61, Appl
cl195	166	6.0	1459	4	US-09-115-453-174	Sequence 174, App	cl268	164.4	6.0	294	3	US-08-485-049D-61	Sequence 61, Appl

1269	164.4	6.0	224	3	US-09-178-115-61	Sequence 61, Appl	1342	163.2	5.9	2480	4	US-09-534-638-3	Sequence 3, Appl
1270	164.4	6.0	294	3	US-09-177-776-61	Sequence 61, Appl	1343	163.2	5.9	10825	3	US-08-652-265-1	Sequence 1, Appl
1271	164.4	6.0	452	3	US-09-621-976-3451	Sequence 3451, Ap	1344	163.2	5.9	10825	3	US-08-652-265-3	Sequence 3, Appl
1272	164.4	6.0	1664	1	US-08-250-740-34	Sequence 34, Appl	1345	163.2	5.9	10825	3	US-08-652-265-5	Sequence 5, Appl
1273	164.4	6.0	1664	1	US-07-695-4728-3	Sequence 3, Appl	1346	163.2	5.9	10825	3	US-08-652-265-7	Sequence 7, Appl
1274	164.4	6.0	1664	4	US-09-106-375-3	Sequence 3, Appl	1347	163.2	5.9	10825	3	US-08-834-497A-1	Sequence 1, Appl
1275	164.4	6.0	2503	3	US-09-198-122-7	Sequence 7, Appl	1348	163.2	5.9	10825	3	US-08-834-497A-3	Sequence 3, Appl
1276	164.4	6.0	5789	3	US-09-242-948-3	Sequence 3, Appl	1349	163.2	5.9	10825	3	US-08-834-497A-5	Sequence 5, Appl
1277	164.2	6.0	310	4	US-09-621-976-7830	Sequence 7830, Ap	1350	163.2	5.9	10825	3	US-08-834-497A-7	Sequence 7, Appl
1278	164.2	6.0	336	4	US-09-640-173-46	Sequence 46, Appl	1351	163.2	5.9	10825	3	US-09-503-444A-1	Sequence 1, Appl
1279	164.2	6.0	336	4	US-09-713-550-46	Sequence 46, Appl	1352	163.2	5.9	10825	3	US-09-503-444A-3	Sequence 3, Appl
1280	164.2	6.0	6752	4	US-09-374-454-20	Sequence 20, Appl	1353	163.2	5.9	10825	3	US-09-503-444A-5	Sequence 5, Appl
1281	164.2	6.0	38564	4	US-09-734-673-3	Sequence 3, Appl	1354	163.2	5.9	10825	3	US-09-503-444A-7	Sequence 7, Appl
1282	164	6.0	309	4	US-09-621-976-11426	Sequence 11426, A	1355	163.2	5.9	12146	4	US-09-277-457-27	Sequence 27, Appl
1283	164	6.0	435	4	US-09-621-976-14452	Sequence 14452, A	1356	163.2	5.9	12146	4	US-09-679-729-27	Sequence 27, Appl
1284	164	6.0	926	3	US-08-338-669A-4	Sequence 4, Appl	1357	163	5.9	503	4	US-09-621-976-2069	Sequence 2069, Ap
1285	164	6.0	1062	4	US-09-306-828-4	Sequence 4, Appl	1358	163	5.9	661	2	US-08-529-878B-37	Sequence 37, Appl
1286	164	6.0	1062	4	US-09-621-976-1721	Sequence 1721, Ap	1359	163	5.9	901	1	US-08-832-883-65	Sequence 65, Appl
1287	164	6.0	2808	3	US-08-870-126-7	Sequence 7, Appl	1360	163	5.9	901	2	US-08-832-877-65	Sequence 65, Appl
1288	164	6.0	2808	4	US-09-445-247-7	Sequence 7, Appl	1361	163	5.9	2091	4	US-09-620-312D-743	Sequence 743, App
1289	164	6.0	3001	4	US-09-639-333D-187	Sequence 187, App	1362	163	5.9	2343	2	US-09-031-392-1	Sequence 1, Appl
1290	164	6.0	3715	3	US-09-085-199B-44	Sequence 44, Appl	1363	163	5.9	2343	3	US-09-299-549-1	Sequence 1, Appl
1291	163.8	6.0	347	4	US-09-621-976-11597	Sequence 11597, A	1364	163	5.9	2343	4	US-09-610-417-1	Sequence 1, Appl
1292	163.8	6.0	635	3	US-09-078-294-15	Sequence 15, Appl	1365	163	5.9	4326	2	US-08-852-807-12	Sequence 12, Appl
1293	163.8	6.0	955	4	US-09-641-638-22	Sequence 22, Appl	1366	163	5.9	13674	2	US-08-852-807-1	Sequence 1, Appl
1294	163.8	6.0	1417	4	US-09-904-615-31	Sequence 31, Appl	1367	162.8	5.9	294	4	US-09-621-976-12202	Sequence 12202, A
1295	163.8	6.0	1866	4	US-09-016-434-1205	Sequence 1205, Ap	1368	162.8	5.9	322	4	US-09-621-976-14512	Sequence 14512, A
1296	163.8	6.0	3350	1	US-08-247-946A-2	Sequence 2, Appl	1369	162.8	5.9	363	4	US-09-621-976-14988	Sequence 14988, A
1297	163.8	6.0	803	5	PCT-US95-06420-2	Sequence 2, Appl	1370	162.8	5.9	370	4	US-09-621-976-14907	Sequence 14907, A
1298	163.6	6.0	803	2	US-08-967-101-117	Sequence 117, App	1371	162.8	5.9	501	4	US-09-621-976-537	Sequence 537, App
1299	163.6	6.0	803	2	US-08-592-541-117	Sequence 117, App	1372	162.8	5.9	1243	3	US-09-103-875-16	Sequence 16, Appl
1300	163.6	6.0	803	3	US-09-124-698-117	Sequence 117, App	1373	162.8	5.9	9301	4	US-09-449-218D-18	Sequence 18, Appl
1301	163.6	6.0	803	3	US-09-127-480-117	Sequence 117, App	1374	162.8	5.9	9301	4	US-09-668-529A-18	Sequence 18, Appl
1302	163.6	6.0	803	3	US-08-496-841C-117	Sequence 117, App	1375	162.8	5.9	9301	4	US-09-668-037A-18	Sequence 18, Appl
1303	163.6	6.0	803	4	US-09-124-523-117	Sequence 117, App	1376	162.8	5.9	14855	2	US-08-687-080-59	Sequence 59, Appl
1304	163.6	6.0	803	4	US-09-636-796A-117	Sequence 117, App	1377	162.6	5.9	458	4	US-09-621-976-14965	Sequence 14965, A
1305	163.6	6.0	803	4	US-08-431-048F-117	Sequence 117, App	1378	162.6	5.9	515	4	US-09-404-879A-143	Sequence 143, App
1306	163.6	6.0	1102	4	US-09-016-434-1131	Sequence 1131, Ap	1379	162.6	5.9	515	4	US-09-338-933-143	Sequence 143, App
1307	163.6	6.0	1102	4	US-09-023-655-943	Sequence 943, App	1380	162.6	5.9	515	4	US-09-215-681-143	Sequence 143, App
1308	163.6	6.0	1120	3	US-08-884-324-2	Sequence 2, Appl	1381	162.6	5.9	515	4	US-09-216-003A-143	Sequence 143, App
1309	163.6	6.0	1120	3	US-08-832-180-6	Sequence 6, Appl	1382	162.6	5.9	519	4	US-09-621-976-10270	Sequence 10270, A
1310	163.6	6.0	2167	3	US-08-884-324-7	Sequence 7, Appl	1383	162.6	5.9	852	4	US-09-526-193A-25	Sequence 25, Appl
1311	163.6	6.0	5543	2	US-08-687-080-101	Sequence 101, App	1384	162.6	5.9	2380	4	US-09-023-655-925	Sequence 925, App
1312	163.6	6.0	7620	1	US-07-767-135-1	Sequence 1, Appl	1385	162.6	5.9	3350	3	US-09-110-116-2	Sequence 2, Appl
1313	163.6	6.0	7620	1	US-07-841-652-1	Sequence 1, Appl	1386	162.6	5.9	4419	4	US-09-620-312D-187	Sequence 187, App
1314	163.6	6.0	8396	4	US-09-328-174A-1	Sequence 17, Appl	1387	162.6	5.9	29485	4	US-09-785-381-6	Sequence 6, Appl
1315	163.6	6.0	8409	3	US-09-167-681-37	Sequence 37, Appl	1388	162.4	5.9	345	3	US-09-385-982-145	Sequence 145, App
1316	163.4	5.9	382	4	US-09-621-976-14099	Sequence 14099, A	1389	162.4	5.9	347	4	US-09-621-976-11693	Sequence 11693, A
1317	163.4	5.9	569	4	US-09-621-976-2191	Sequence 2191, Ap	1390	162.4	5.9	370	4	US-09-621-976-12597	Sequence 12597, A
1318	163.4	5.9	4316	1	US-08-317-450B-14	Sequence 14, Appl	1391	162.4	5.9	478	4	US-09-621-976-15170	Sequence 15170, A
1319	163.4	5.9	4316	3	US-08-800-593-14	Sequence 13, Appl	1392	162.4	5.9	485	4	US-09-621-976-1908	Sequence 1908, Ap
1320	163.4	5.9	5037	4	US-09-705-299-13	Sequence 13, Appl	1393	162.4	5.9	1001	4	US-09-671-317-274	Sequence 274, App
1321	163.4	5.9	9365	4	US-09-608-285A-8	Sequence 8, Appl	1394	162.4	5.9	2174	4	US-09-613-444-1	Sequence 1, Appl
1322	163.4	5.9	9365	4	US-09-350-836B-8	Sequence 8, Appl	1395	162.4	5.9	4244	4	US-09-340-620A-54	Sequence 54, Appl
1323	163.4	5.9	9365	4	US-09-370-265-8	Sequence 8, Appl	1396	162.4	5.9	5597	4	US-09-635-872A-4	Sequence 4, Appl
1324	163.4	5.9	9365	4	US-09-557-800C-8	Sequence 8, Appl	1397	162.4	5.9	5597	4	US-09-636-077A-4	Sequence 4, Appl
1325	163.4	5.9	9365	4	US-09-370-625A-8	Sequence 8, Appl	1398	162.4	5.9	5597	4	US-09-636-060C-4	Sequence 4, Appl
1326	163.4	5.9	18073	3	US-09-078-294-12	Sequence 12, Appl	1399	162.4	5.9	5597	4	US-09-986-552-4	Sequence 4, Appl
1327	163.2	5.9	257	2	US-08-489-701-4	Sequence 4, Appl	1400	162.2	5.9	343	4	US-09-621-976-12756	Sequence 12756, A
1328	163.2	5.9	345	4	US-09-621-976-11855	Sequence 11855, A	1401	162.2	5.9	559	4	US-09-621-976-16821	Sequence 16821, A
1329	163.2	5.9	434	4	US-09-621-976-13280	Sequence 13280, A	1402	162.2	5.9	618	3	US-09-385-982-373	Sequence 373, App
1330	163.2	5.9	601	4	US-09-820-002-7	Sequence 7, Appl	1403	162.2	5.9	1491	4	US-09-461-325-22	Sequence 22, Appl
1331	163.2	5.9	1401	2	US-08-481-658B-49	Sequence 49, Appl	1404	162.2	5.9	1491	4	US-10-012-542-22	Sequence 11, Appl
1332	163.2	5.9	1401	2	US-08-477-504A-49	Sequence 49, Appl	1405	162.2	5.9	2197	4	US-09-907-794A-11	Sequence 11, Appl
1333	163.2	5.9	1401	2	US-08-486-756A-49	Sequence 49, Appl	1406	162.2	5.9	2197	4	US-09-905-125A-11	Sequence 11, Appl
1334	163.2	5.9	1401	2	US-08-485-862B-49	Sequence 49, Appl	1407	162.2	5.9	2197	4	US-09-902-775A-11	Sequence 11, Appl
1335	163.2	5.9	1401	3	US-08-787-739-49	Sequence 49, Appl	1408	162.2	5.9	2841	4	US-09-526-193A-24	Sequence 24, Appl
1336	163.2	5.9	1401	3	US-08-487-077A-49	Sequence 49, Appl	1409	162	5.9	436	4	US-09-621-976-10893	Sequence 10893, A
1337	163.2	5.9	1401	3	US-08-485-863A-49	Sequence 49, Appl	1410	162	5.9	439	4	US-09-621-976-10550	Sequence 10550, A
1338	163.2	5.9	1401	3	US-08-485-049D-49	Sequence 49, Appl	1411	162	5.9	476	4	US-09-621-976-14414	Sequence 14414, A
1339	163.2	5.9	1401	3	US-09-178-115-49	Sequence 49, Appl	1412	162	5.9	485	4	US-09-621-976-2118	Sequence 2118, Ap
1340	163.2	5.9	1401	3	US-09-177-776-49	Sequence 49, Appl	1413	162	5.9	518	4	US-09-621-976-19050	Sequence 19050, A
1341	163.2	5.9	2023	4	US-09-491-522-6	Sequence 6, Appl	1414	162	5.9	676	4	US-09-490-818-1	Sequence 1, Appl

```

c1415 162 5.9 826 4 US-09-288-143-45 Sequence 45, Appl
c1416 162 5.9 1853 4 US-09-439-313-369 Sequence 369, Appl
c1417 162 5.9 1853 4 US-09-062-451-295 Sequence 295, Appl
c1418 162 5.9 1853 4 US-09-352-616A-369 Sequence 369, Appl
c1419 162 5.9 1853 4 US-09-289-198-295 Sequence 295, Appl
c1420 162 5.9 1853 4 US-09-636-215-369 Sequence 369, Appl
c1421 162 5.9 1853 4 US-09-685-166A-369 Sequence 369, Appl
c1422 162 5.9 1853 4 US-09-429-755-295 Sequence 295, Appl
c1423 162 5.9 2184 4 US-09-439-313-370 Sequence 370, Appl
c1424 162 5.9 2184 4 US-09-062-451-296 Sequence 296, Appl
c1425 162 5.9 2184 4 US-09-352-616A-370 Sequence 370, Appl
c1426 162 5.9 2184 4 US-09-289-198-296 Sequence 296, Appl
c1427 162 5.9 2184 4 US-09-636-215-370 Sequence 370, Appl
c1428 162 5.9 2184 4 US-09-685-166A-370 Sequence 370, Appl
c1429 162 5.9 2184 4 US-09-429-755-296 Sequence 296, Appl
c1430 162 5.9 14364 4 US-10-067-443-20 Sequence 20, Appl
c1431 161.8 5.9 293 4 US-09-621-976-11751 Sequence 11751, A
c1432 161.8 5.9 307 4 US-09-621-976-14378 Sequence 14378, A
c1433 161.8 5.9 341 4 US-09-621-976-13062 Sequence 13062, A
c1434 161.8 5.9 3001 4 US-09-539-333D-188 Sequence 188, Appl
c1435 161.8 5.9 4895 3 US-09-053-866-1 Sequence 1, Appl
c1436 161.8 5.9 4895 4 US-09-479-130-1 Sequence 1, Appl
c1437 161.8 5.9 4895 4 US-09-472-130A-1 Sequence 1, Appl
c1438 161.6 5.9 318 4 US-09-621-976-11879 Sequence 11879, A
c1439 161.6 5.9 327 4 US-09-621-976-12084 Sequence 12084, A
c1440 161.6 5.9 331 4 US-09-621-976-18173 Sequence 18173, A
c1441 161.6 5.9 336 4 US-09-621-976-11871 Sequence 11871, A
c1442 161.6 5.9 338 4 US-09-621-976-13555 Sequence 13555, A
c1443 161.6 5.9 340 4 US-09-621-976-11770 Sequence 11770, A
c1444 161.6 5.9 343 4 US-09-621-976-11941 Sequence 11941, A
c1445 161.6 5.9 343 4 US-09-621-976-11947 Sequence 11947, A
c1446 161.6 5.9 343 4 US-09-621-976-12234 Sequence 12234, A
c1447 161.6 5.9 344 4 US-09-621-976-12385 Sequence 12385, A
c1448 161.6 5.9 344 4 US-09-621-976-11862 Sequence 11862, A
c1449 161.6 5.9 345 4 US-09-621-976-11806 Sequence 11806, A
c1450 161.6 5.9 478 4 US-09-621-976-15071 Sequence 15071, A
c1451 161.6 5.9 579 3 US-09-328-111-741 Sequence 741, Appl
c1452 161.6 5.9 999 4 US-09-345-882-3 Sequence 3, Appl
c1453 161.6 5.9 1110 4 US-09-511-625B-43 Sequence 43, Appl
c1454 161.6 5.9 1563 4 US-09-489-847-37 Sequence 37, Appl
c1455 161.6 5.9 2000 3 US-09-039-555B-19 Sequence 19, Appl
c1456 161.6 5.9 17425 4 US-09-511-625B-5 Sequence 5, Appl
c1457 161.4 5.9 354 4 US-09-621-976-14159 Sequence 14159, A
c1458 161.4 5.9 358 4 US-09-621-976-11727 Sequence 11727, A
c1459 161.4 5.9 649 4 US-09-624-268B-7 Sequence 7, Appl
c1460 161.4 5.9 1441 4 US-09-122-171D-4 Sequence 4, Appl
c1461 161.4 5.9 2086 3 US-08-589-028-9 Sequence 9, Appl
c1462 161.4 5.9 2086 3 US-08-784-582-9 Sequence 9, Appl
c1463 161.4 5.9 7452 3 US-08-785-271-9 Sequence 9, Appl
c1464 161.4 5.9 7452 3 US-08-592-500-1 Sequence 1, Appl
c1465 161.4 5.9 7452 3 US-08-195-006-1 Sequence 1, Appl
c1466 161.4 5.9 7452 5 PCT-US94-07644A-1 Sequence 1, Appl
c1467 161.4 5.9 9164 4 US-09-205-817A-2 Sequence 2, Appl
c1468 161.4 5.9 9274 4 US-09-811-115-1 Sequence 1, Appl
c1469 161.4 5.9 11846 4 US-09-205-817A-4 Sequence 4, Appl
c1470 161.4 5.9 12022 4 US-09-205-817A-3 Sequence 3, Appl
c1471 161.2 5.9 304 4 US-09-621-976-14733 Sequence 14733, A
c1472 161.2 5.9 313 4 US-09-621-976-14934 Sequence 14934, A
c1473 161.2 5.9 322 4 US-09-621-976-11620 Sequence 11620, A
c1474 161.2 5.9 328 4 US-09-621-976-14841 Sequence 14841, A
c1475 161.2 5.9 328 4 US-09-621-976-14924 Sequence 14924, A
c1476 161.2 5.9 339 4 US-09-621-976-13353 Sequence 13353, A
c1477 161.2 5.9 343 4 US-09-621-976-11725 Sequence 11725, A
c1478 161.2 5.9 346 4 US-09-621-976-12435 Sequence 12435, A
c1479 161.2 5.9 412 4 US-09-621-976-18424 Sequence 18424, A
c1480 161.2 5.9 2630 4 US-09-962-665-13 Sequence 13, Appl
c1481 161.2 5.9 2630 4 US-09-963-333-13 Sequence 13, Appl
c1482 161.2 5.9 3001 4 US-09-539-333D-136 Sequence 136, Appl
c1483 161.2 5.9 3805 3 US-09-108-006C-3 Sequence 3, Appl
c1484 161.2 5.9 4550 3 US-09-103-663-35 Sequence 35, Appl
c1485 161.2 5.9 11725 2 US-08-756-506-1 Sequence 1, Appl
c1486 161.2 5.9 11725 4 US-09-328-925-50 Sequence 50, Appl
c1487 161 5.9 342 4 US-09-621-976-2987 Sequence 2987, Appl

```

RESULT 1

```

US-10-027-983-11/c
; Sequence 11, Application US/10027983
; Patent No. 6617162
; GENERAL INFORMATION:
; APPLICANT: Kenneth W. Dobie
; APPLICANT: Mark P. Roach
; TITLE OF INVENTION: ANTISENSE MODULATION OF ESTROGEN RECEPTOR ALPHA EXPRESSION
; FILE REFERENCE: RTS-0340
; CURRENT APPLICATION NUMBER: US/10/027,983
; CURRENT FILING DATE: 2001-12-18
; NUMBER OF SEQ ID NOS: 98
; SEQ ID NO 11
; LENGTH: 392000
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: unsure
; LOCATION: 137740
; OTHER INFORMATION: unknown
; NAME/KEY: unsure
; LOCATION: 137742
; OTHER INFORMATION: unknown
; NAME/KEY: misc feature
; LOCATION: (138122)...(138221)
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: unsure
; LOCATION: 145507
; OTHER INFORMATION: unknown
; NAME/KEY: unsure
; LOCATION: 151967
; OTHER INFORMATION: unknown
; NAME/KEY: misc feature
; LOCATION: (151967)...(1542066)
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: unsure
; LOCATION: 154217
; OTHER INFORMATION: unknown
; NAME/KEY: misc feature
; LOCATION: (154037)...(164136)
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: misc feature
; LOCATION: (174657)...(174756)
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: misc feature
; LOCATION: (186224)...(186323)
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: misc feature
; LOCATION: (195242)...(195341)
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: unsure
; LOCATION: 202703
; OTHER INFORMATION: unknown
; NAME/KEY: misc feature
; LOCATION: (202771)...(202870)

```

ALIGNMENTS

Query Match	7.8%;	Score 214.8;	DB 4;	Length 22481;
Best Local Similarity	76.5%;	Pred. No. 1.5e-47;		
Matches 280;	Conservative 0;	Mismatches 77;	Indels 9;	Gaps 1;
QY	2080	GAGAAGGGGTCGGGGGTGGTAAAGTAGACAACACTACATATTTTTTTCTTTTTTCATT	2139	
DB	9455	GTGTGGGGCCAGGGCAGGGGAGACAACGCTGTTACAGATTCTACATTTTTTTTTTCTTTT	9514	
QY	2140	ATTATTTGTTTTTAAAGCAGAAATCTCGTGTCTGCCAGGCTGGAGTGAGTGGGACGA	2199	
DB	9515	TTTTTTTTTTTTTTTGAGATGGAGTCTTGCTCTGTGTGCCAGCCTGGAGTGAGTGGCGGA	9574	
QY	2200	T-----CTGCAAACTCGGCTCTCGGGTTCAAGTGATTTCTTGCCCTCAGCCTCCC	2250	
DB	9575	TCTCAGCTCACTGCAACCTCCATTCCTGGAATTCAGTGATTCCTCGCCTTAGCCTCCC	9634	
QY	2251	GAGTAGCTGGATTACAGGCACGCACACACACCTGGGCTAAATTTTTGTACTTTTAGTAG	2310	
DB	9635	AAGTAGCTGGGATTACAGGCATGGCCACACACACCCGGCTAAATTTTTGTATTTTTAGTAG	9694	
QY	2311	AGATGGGGTTTACCAGTTTGGCCAGGCTGGTCTTTGAACCTCTTGACCTCAAAATGAGGCTC	2370	
DB	9695	AGATGGGGTTTCTCATGTTTGGCCAGAGTGGTCTCAAACTCTCGACCTCAGGTGATCTAC	9754	
QY	2371	CTGCTTCAGTCTCCAAATTTCCGGGATTACAGGCATGAGCCACTGTGCTCTGGCCCTTATT	2430	
DB	9755	CCGCTCGGCTCTCAAAGTCTGGGATTAACAGTTTGAGCCACTGGCGCTGGCCCTTTT	9814	
QY	2431	TCCTTT	2436	

	Query Match	7.8%;	Score 214.8;	DB 5;	Length 22481;
	Best Local Similarity	76.5%;	Pred. No. 1.5e-47;		
	Matches 280;	Conservative 0;	Mismatches 77;	Indels 9;	Gaps 1;
QY	2080	GAGAAAGGGTCGGGGTGCTGTAAGTAGCAACTACTATTTTTTTTCTTTTCCATT	2139		
DB	9455	GTGTGGGGGCCAGGCGAGGCGAGACAACGCTGTTTCAGATTCTACATTTTTTTTTCCTTT	9514		
QY	2140	ATTATTGTTTTTTTAAAGACAAGATCTCGTCTGCTGCCAGGCTGGAGTCAGTGGCACA	2199		
DB	9515	TTTTTTTTTTTTTTTGAGATGGAGCTCTTGCTCTGTGCCAGCCTGGAGTCACTGGCGCA	9574		

QY 2200 T-----CTGAAACTCCGCTCTCTGGGTTCAAGTGAATCTTCTGCTCAGCCTCCC 2250
DB 9575 TCTCAGCTCACTGCAACCTCCACTTCTCTGGATTCAAGTGATTTCTCTGCTTACGCTCCC 9634
QY 2251 GAGTAGCTGGGATTACAGGCACGACACACACCTGGCTGAATTTTGTACTTTTAGTAG 2310
DB 9635 AAGTAGCTGGGATTACAGGCATGCGCACACACACCGGCTAAATTTTGTATTTTAGTAG 9694
QY 2311 AGATGGGTTTACCATTTGGCCAGGCTGCTTGAACCTCCTGACCTCAAAATGAGCCTC 2370
DB 9695 AGATGGGTTTCTCCATTGTTGGCCAGGATGCTCAAACTCTCAGCTCAGGTGATCTAC 9754
QY 2371 CTGCTTCAGTCTCCCAAAATGCGGGATTACAGGCATGAGCCTGCTGTCTGGCCCTATT 2430
DB 9755 CCGCTCGGCTCTCAAAAGTCTGGGATTACAGGTTGAGCCACTGGCCCTGCTTTT 9814
QY 2431 TCCTTT 2436
DB 9815 TTTT 9820

RESULT 5
US-09-875-223-2
; Sequence 2, Application US/09875223
; Patent No. 6391850
; GENERAL INFORMATION:
; APPLICANT: No. 6391850thwestern University
; APPLICANT: David Dawson
; APPLICANT: Paul Gillis
; TITLE OF INVENTION: Methods and Compositions for Inhibiting Angiogenesis
; FILE REFERENCE: 0290-2303
; CURRENT APPLICATION NUMBER: US/09/875,223
; CURRENT FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: US 09/122,079
; PRIOR FILING DATE: 1998-07-23
; PRIOR APPLICATION NUMBER: PCT/US98/15228
; PRIOR FILING DATE: 1998-07-23
; PRIOR APPLICATION NUMBER: US 08/899,304
; PRIOR FILING DATE: 1997-07-23
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 22484
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: Unsure
; LOCATION: 1...22484
; OTHER INFORMATION: "n" means either a, c, t, or g
US-09-875-223-2

Query Match 7.8%; Score 214.8; DB 4; Length 22484;
Best Local Similarity 76.5%; Pred. No. 1.5e-47;
Matches 280; Conservative 0; Mismatches 77; Indels 9; Gaps 1;
QY 2080 GAGAGGGGTCGGGGTGGTAAAGTAGACACAACTACTATTTTCTTTTTCATT 2139
DB 9455 GTGTTGGGGCCAGGGCAGGGAGACAACTGTTCAATTTTCTTTTTCCTTT 9514
QY 2140 ATTATTGTTTTTAAAGACAGATCTCGTGTCTGCTGCCAGGCTGGAGTGCAGTGGCAGCA 2199
DB 9515 TTTTGTGGGGCCAGGGCAGGGAGACAACTGTTCAATTTTCTTTTTCCTTT 9514
QY 2199 TTTTGTGGGGCCAGGGCAGGGAGACAACTGTTCAATTTTCTTTTTCCTTT 9514
DB 9515 TTTTGTGGGGCCAGGGCAGGGAGACAACTGTTCAATTTTCTTTTTCCTTT 9514
QY 2200 T-----CTGAAACTCCGCTCTCTGGGTTCAAGTGAATCTTCTGCTCAGCCTCCC 2250
DB 9575 TCTCAGCTCACTGCAACCTCCACTTCTCTGGATTCAAGTGATTTCTCTGCTTACGCTCCC 9634
QY 2251 GAGTAGCTGGGATTACAGGCACGACACACACCTGGCTGAATTTTGTACTTTTAGTAG 2310
DB 9635 AAGTAGCTGGGATTACAGGCATGCGCACACACCGGCTAAATTTTGTATTTTAGTAG 9694
QY 2311 AGATGGGTTTACCATTTGGCCAGGCTGCTTGAACCTCCTGACCTCAAAATGAGCCTC 2370
DB 9695 AGATGGGTTTCTCCATTGTTGGCCAGGATGCTCAAACTCTCAGCTCAGGTGATCTAC 9754
QY 2371 CTGCTTCAGTCTCCCAAAATGCGGGATTACAGGCATGAGCCTGCTGTCTGGCCCTATT 2430
DB 9755 CCGCTCGGCTCTCAAAAGTCTGGGATTACAGGTTGAGCCACTGGCCCTGCTTTT 9814
QY 2431 TCCTTT 2436

QY 2311 AGATGGGTTTACCATTTGGCCAGGCTGCTTGAACCTCCTGACCTCAAAATGAGCCTC 2370
DB 9695 AGATGGGTTTCTCCATTGTTGGCCAGGATGCTCAAACTCTCAGCTCAGGTGATCTAC 9754
QY 2371 CTGCTTCAGTCTCCCAAAATGCGGGATTACAGGCATGAGCCTGCTGTCTGGCCCTATT 2430
DB 9755 CCGCTCGGCTCTCAAAAGTCTGGGATTACAGGTTGAGCCACTGGCCCTGCTTTT 9814
QY 2431 TCCTTT 2436
DB 9815 TTTT 9820

RESULT 6
US-09-875-114-2
; Sequence 2, Application US/09875114
; Patent No. 6670333
; GENERAL INFORMATION:
; APPLICANT: No. 6670333thwestern University
; APPLICANT: David Dawson
; APPLICANT: Paul Gillis
; TITLE OF INVENTION: Methods and Compositions for Inhibiting Angiogenesis
; FILE REFERENCE: 0290-2302
; CURRENT APPLICATION NUMBER: US/09/875,114
; CURRENT FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: US 09/122,079
; PRIOR FILING DATE: 1998-07-23
; PRIOR APPLICATION NUMBER: PCT/US98/15228
; PRIOR FILING DATE: 1998-07-23
; PRIOR APPLICATION NUMBER: US 08/899,304
; PRIOR FILING DATE: 1997-07-23
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 22484
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: Unsure
; LOCATION: 1...22484
; OTHER INFORMATION: "n" means either a, c, t, or g
US-09-875-114-2

Query Match 7.8%; Score 214.8; DB 4; Length 22484;
Best Local Similarity 76.5%; Pred. No. 1.5e-47;
Matches 280; Conservative 0; Mismatches 77; Indels 9; Gaps 1;
QY 2080 GAGAGGGGTCGGGGTGGTAAAGTAGACACAACTACTATTTTCTTTTTCATT 2139
DB 9455 GTGTTGGGGCCAGGGCAGGGAGACAACTGTTCAATTTTCTTTTTCCTTT 9514
QY 2140 ATTATTGTTTTTAAAGACAGATCTCGTGTCTGCTGCCAGGCTGGAGTGCAGTGGCAGCA 2199
DB 9515 TTTTGTGGGGCCAGGGCAGGGAGACAACTGTTCAATTTTCTTTTTCCTTT 9514
QY 2200 T-----CTGAAACTCCGCTCTCTGGGTTCAAGTGAATCTTCTGCTCAGCCTCCC 2250
DB 9575 TCTCAGCTCACTGCAACCTCCACTTCTCTGGATTCAAGTGATTTCTCTGCTTACGCTCCC 9634
QY 2251 GAGTAGCTGGGATTACAGGCACGACACACCTGGCTGAATTTTGTACTTTTAGTAG 2310
DB 9635 AAGTAGCTGGGATTACAGGCATGCGCACACACCGGCTAAATTTTGTATTTTAGTAG 9694
QY 2311 AGATGGGTTTACCATTTGGCCAGGCTGCTTGAACCTCCTGACCTCAAAATGAGCCTC 2370
DB 9695 AGATGGGTTTCTCCATTGTTGGCCAGGATGCTCAAACTCTCAGCTCAGGTGATCTAC 9754
QY 2371 CTGCTTCAGTCTCCCAAAATGCGGGATTACAGGCATGAGCCTGCTGTCTGGCCCTATT 2430
DB 9755 CCGCTCGGCTCTCAAAAGTCTGGGATTACAGGTTGAGCCACTGGCCCTGCTTTT 9814
QY 2431 TCCTTT 2436

Db 9815 TTTT 9820

RESULT 7

US-08-520-373D-4

; Sequence 4, Application US/08520373D

; Patent No. 6451763

; GENERAL INFORMATION:

; APPLICANT: Tombran-Tink, Joyce

; APPLICANT: Steele, Fintan R

; APPLICANT: Chader, Gerald J

; APPLICANT: Becerra, Sofia P

; APPLICANT: Johnson, Lincoln V

; APPLICANT: Rodriguez, Ignacio R

; TITLE OF INVENTION: RETINAL PIGMENTED EPITHELIUM DERIVED NEUROTROPIC FACTOR

; FILE REFERENCE: 2026-4203US1

; CURRENT APPLICATION NUMBER: US/08/520,373D

; CURRENT FILING DATE: 1995-08-29

; PRIOR APPLICATION NUMBER: 08/377,710

; PRIOR FILING DATE: 1995-01-25

; PRIOR APPLICATION NUMBER: 08/279,979

; PRIOR FILING DATE: 1994-07-25

; PRIOR APPLICATION NUMBER: 07/894,215

; PRIOR FILING DATE: 1992-06-04

; PRIOR APPLICATION NUMBER: 07/952,796

; PRIOR FILING DATE: 1992-09-24

; NUMBER OF SEQ ID NOS: 34

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 4

; LENGTH: 14581

; TYPE: DNA

; ORGANISM: HUMAN

; FEATURE:

; OTHER INFORMATION: mRNA: 6683; EXON: 6683-6790; EXON 11584-11675;

; OTHER INFORMATION: EXON: 14539-14581; INTRON: 6791-11583; INTRON:

; OTHER INFORMATION: 11676-14536; CDS: 11584-11675; 14539-14580

US-08-520-373D-4

Query Match 7.8%; Score 214.6; DB 4; Length 14581;

Best Local Similarity 77.08; Pred. No. 1.3e-47;

Matches 278; Conservative 0; Mismatches 74; Indels 9; Gaps 1;

Qy 2085 GGGTCGGGGTGGTGAAGTAGCACAACACTACTATTTTCTTTTCCATTATAT 2144

Db 9471 GGGGGCCAGGCGGAGGAGACACGCTGTTCCAGATTCTACATTTTCTTTTCC 9530

Qy 2145 TGTCTTTTACAGAGATCTGCTGCTGCCAGGCTGGAGTGCAGTGCACGAT 2200

Db 9531 TTTTGTGAGATGGAGTCTGTCTGTGCCAGCCTGGAGTGCAGTGGCGGATCTCA 9590

Qy 2201 -----CTGCAAACTCCGCTCTGGGTTCAAGTGATTCTTCTGCTCAGCTCCCGAGTA 2255

Db 9591 GCTCAGTGGAACCTCACTCTCTGGATTCAGTGATTCTCTGCTTAGCTCCCAAGTA 9650

Qy 2256 GCTGGGATACAGCAGCAGCACCACACACCTGGCTAAATTTTGTACTTTTAGTAGAGATG 2315

Db 9651 GCTGGGATACAGCAGTGGCGCACACACACCGGCTAAATTTTGTATTATTAGTAGAGATG 9710

Qy 2316 GGGTTTCACTATGTCGCGGCTGGTCTTGAACCTCCTGACCTCAATAGACCTCTGCT 2375

Db 9711 GGGTTTCTCATGTGTCGCGGAGTGGTCTCAAACTCCTGACCTCAGGTGATCTACCGGCC 9770

Qy 2376 TCAGTCTCCCAAAATGCGGGATTACAGGATAGCCACTGTGTCTCGGCCCTATTTCCTT 2435

Db 9771 TCGGCTCTCAAGTGTGGGATTACAGTTTGGACCACTGCGGCTGGGCTTTT 9830

Qy 2436 T 2436

Db 9831 T 9831

RESULT 8

US-09-009-217-11/c

; Sequence 11, Application US/09009217

; Patent No. 6132729

; GENERAL INFORMATION:

; APPLICANT: Thorpe, Philip E.

; APPLICANT: King, Steven W.

; APPLICANT: Gao, Boning

; TITLE OF INVENTION: COMBINED TISSUE FACTOR AND

; TITLE OF INVENTION: CHEMOTHERAPEUTIC METHODS AND COMPOSITIONS FOR COAGULATION

; TITLE OF INVENTION: AND TUMOR TREATMENT

; NUMBER OF SEQUENCES: 27

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Arnold, White & Durkee

; STREET: P.O. Box 4433

; CITY: Houston

; STATE: Texas

; COUNTRY: USA

; ZIP: 77210

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/009,217

; FILING DATE: Concurrently Herewith

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 60/042,427

; FILING DATE: 27-MAR-1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 60/036,205

; FILING DATE: 27-JAN-1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 60/035,920

; FILING DATE: 22-JAN-1997

; ATTORNEY/AGENT INFORMATION:

; NAME: Hibler, David W.

; REGISTRATION NUMBER: 41,071

; REFERENCE/DOCKET NUMBER: UTSD:536

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 512/418-3000

; TELEFAX: 512/474-7577

; INFORMATION FOR SEQ ID NO: 11:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 13865 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

US-09-009-217-11

Query Match 7.7%; Score 213; DB 3; Length 13865;

Best Local Similarity 78.68; Pred. No. 3.5e-47;

Matches 271; Conservative 0; Mismatches 65; Indels 9; Gaps 1;

Qy 2121 TTTTCTTTTCTTTTCCATTATTTGTTTTTAAAGACAGAACTCTGCTGCTGCCAGG 2180

Db 8704 TTTCTTTTCTTTCTTTCTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 8645

Qy 2181 CTGGAGTGCAGTGGCAGAT-----CTGCNAACCTCCCTCTCTGGGTTCAAGTAT 2231

Db 8644 CCGGAGTGCAGTGGCAGATCTCAGTTCACTGCAACCTCTCTCCACCTGGGTCGAAGTAT 8585

Qy 2232 TCTTCTGCTCTCAGCTCCCGAGTAGCTGGGATTACAGGCACGACACCACTGGCTA 2291

Db 8584 TCTCTGCTCTCAGCTCCCGAGTAGCTGGGATTACAGGCACGACCACTGGCTA 8525

Qy 2292 ATTTTGTACTTTTAGTAGAGATGGGGTTTTCACCATGTTGGCCAGGTGTTTGAATC 2351

Db 8524 ATTTTGTATTTTAGTAGAGATGGGGTTTTCACCATGTTGGCCAGGTGTTTGAATC 8465

Qy 2352 CTGACCTCAATGAGCCTCTCTCTGCTCTCCCAAAATTCGCGGATTTACAGGCATGAGC 2411

APPLICANT: Mulligan, John T.
APPLICANT: Schellenberg, Gerald D.
TITLE OF INVENTION: GENE AND GENE PRODUCTS RELATED TO
TITLE OF INVENTION: WERNER'S SYNDROME
NUMBER OF SEQUENCES: 209
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED AND BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/781,891
FILING DATE: 27-DEC-1996
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: No. 6090620tenburg Ph.D., Carol
REGISTRATION NUMBER: 39,317
REFERENCE/DOCKET NUMBER: 240052.419
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 79:
SEQUENCE CHARACTERISTICS:
LENGTH: 87350 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-781-891-79

Query Match 7.6%; Score 209.2; DB 3; Length 87350;
Best Local Similarity 74.9%; Pred. No. 1.1e-45;
Matches 278; Conservative 0; Mismatches 84; Indels 9; Gaps 1;

Qy	2069	CCAGCCCCCTGGAGAGGGGTGCGGGGTGTTAAAGTAGCACAACTACTATTTT	2128
Db	42349	CAACTCCAGGGTGCAAGCTCCATTCGTGTAAGTGCCCTGTACAGATGACCTTTTAT	42290
Qy	2129	CTTTTCCCAATTATTTTAAAGACAGAATCTCGTCTGCTGCCAGGCTGGAGTG	2188
Db	42289	CTCTTTTCTTTTCTTTTNGAGACAGAGTCTGCTCTGCTCTCCAGGCTGAAGTG	42230
Qy	2189	CAGTGGCAGCAT-----CTGCAAACTCCGCTCTCGGGTTCAAGTGAATCTTCTGC	2239
Db	42229	CAGTGGCACAATCTTGACTCACTGCAACCTCCACCTCTCGGGTTCAAGCAATCTCCTGC	42170
Qy	2240	CTCAGCTCCGAGTAGCTGGGATTACAGCAGCAGCAGCAGCAGCTGGCTTAATTTTGT	2299
Db	42169	CTCAGCTCTCTGAATAGCTGGGATTACAGCAGCAGCAGCAGCTGGCTTAATTTTGT	42110
Qy	2300	ACTTTTAGTAGAGATGGGTTTCAACATGTTGGCCAGGCTGCTTGAATCTCTGACCTC	2359
Db	42109	ACTTTTAGTAGAAGAGGTTTTCATGTTGGCCAGGCTGCTTGAATCTCTGACCTC	42050
Qy	2360	AAATGAGCTCTGCTTCACTTCCCAAAATGCGGGATTACAGGATGAGCCACTGTGT	2419
Db	42049	AAGTGATCTGCTGCTCGGCTTCCCAAAAGTGTGGGATTACAGGCGTGAGCCACCATGC	41990
Qy	2420	CTGGCCCTATT 2430	
Db	41989	CCAGCTTTTTT 41979	

RESULT 12

US-09-618-166-79/c
; Sequence 79, Application US/09618166
; Patent No. 6583112

GENERAL INFORMATION:
APPLICANT: Fu, Ying-Hui
APPLICANT: Yu, Chang-En
Oshima, Junko
Mulligan, John T.
Schellenberg, Gerald D.
TITLE OF INVENTION: GENE AND GENE PRODUCTS RELATED TO
TITLE OF INVENTION: WERNER'S SYNDROME
NUMBER OF SEQUENCES: 209
CORRESPONDENCE ADDRESS:
ADDRESSEE: Seed Intellectual Property Law Group
STREET: 701 Fifth Avenue, Suite 6300
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/618,166
FILING DATE: 17-Jul-2000
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: McMasters, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 240052.419C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 79:
SEQUENCE CHARACTERISTICS:
LENGTH: 87350 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 79:
US-09-618-166-79

Query Match 7.6%; Score 209.2; DB 4; Length 87350; Best Local Similarity 74.9%; Pred. No. 1.1e-45; Matches 278; Conservative 0; Mismatches 84; Indels 9; Gaps 1;	Qy	2069	CCAGCCCCCTGGAGAGGGGTGCGGGGTGTTAAAGTAGCACAACTACTATTTT	2128
	Db	42349	CAACTCCAGGGTGCAAGCTCCATTCGTGTAAGTGCCCTGTACAGATGACCTTTTAT	42290
	Qy	2129	CTTTTCCCAATTATTTTAAAGACAGAATCTCGTCTGCTGCCAGGCTGGAGTG	2188
	Db	42289	CTCTTTTCTTTTCTTTTNGAGACAGAGTCTGCTCTGCTCTCCAGGCTGAAGTG	42230
	Qy	2189	CAGTGGCAGCAT-----CTGCAAACTCCGCTCTCGGGTTCAAGTGAATCTTCTGC	2239
	Db	42229	CAGTGGCACAATCTTGACTCACTGCAACCTCCACCTCTCGGGTTCAAGCAATCTCCTGC	42170
	Qy	2240	CTCAGCTCCGAGTAGCTGGGATTACAGCAGCAGCAGCAGCTGGCTTAATTTTGT	2299
	Db	42169	CTCAGCTCTCTGAATAGCTGGGATTACAGCAGCAGCAGCTGGCTTAATTTTGT	42110
	Qy	2300	ACTTTTAGTAGAGATGGGTTTCAACATGTTGGCCAGGCTGCTTGAATCTCTGACCTC	2359
	Db	42109	ACTTTTAGTAGAAGAGGTTTTCATGTTGGCCAGGCTGCTTGAATCTCTGACCTC	42050
	Qy	2360	AAATGAGCTCTGCTTCACTTCCCAAAATGCGGGATTACAGGATGAGCCACTGTGT	2419
	Db	42049	AAGTGATCTGCTGCTCGGCTTCCCAAAAGTGTGGGATTACAGGCGTGAGCCACCATGC	41990
	Qy	2420	CTGGCCCTATT 2430	
	Db	41989	CCAGCTTTTTT 41979	

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: September 13, 2004, 14:24:32 ; Search time 1230 Seconds
(without alignments)
11245.249 Million cell updates/sec

Title: US-10-017-081A-215
Perfect score: 2749
Sequence: 1 cttccacggtgtccagccg.....ctgcataaaaaaaaaa 2749

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 3304383 seqs, 2515761380 residues

Total number of hits satisfying chosen parameters: 6608766

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1500 summaries

Database : Published Applications NA:
1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq:*
10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:*
11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
13: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq:*
14: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:*
15: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
16: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
17: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
18: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
19: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	2747	99.9	2749	9	US-09-989-722-516 Sequence 516, App
2	2747	99.9	2749	9	US-09-989-723-516 Sequence 516, App
3	2747	99.9	2749	9	US-09-989-729-516 Sequence 516, App
4	2747	99.9	2749	9	US-09-989-727-516 Sequence 516, App
5	2747	99.9	2749	9	US-09-989-731-516 Sequence 516, App
6	2747	99.9	2749	9	US-09-989-732-516 Sequence 516, App
7	2747	99.9	2749	9	US-09-991-073-516 Sequence 516, App
8	2747	99.9	2749	9	US-09-990-442-516 Sequence 516, App
9	2747	99.9	2749	9	US-09-991-163-516 Sequence 516, App
10	2747	99.9	2749	9	US-09-993-604-516 Sequence 516, App
11	2747	99.9	2749	9	US-09-990-456-516 Sequence 516, App
12	2747	99.9	2749	9	US-09-989-721-516 Sequence 516, App
13	2747	99.9	2749	9	US-09-978-295A-215 Sequence 215, App
14	2747	99.9	2749	9	US-09-992-598-516 Sequence 516, App
15	2747	99.9	2749	9	US-09-989-697-215 Sequence 215, App
16	2747	99.9	2749	9	US-09-989-293A-516 Sequence 516, App
17	2747	99.9	2749	9	US-09-978-192A-215 Sequence 215, App
18	2747	99.9	2749	9	US-09-999-832A-215 Sequence 215, App
19	2747	99.9	2749	9	US-09-989-735-516 Sequence 516, App
20	2747	99.9	2749	9	US-09-990-444-516 Sequence 516, App
21	2747	99.9	2749	9	US-09-991-181-516 Sequence 516, App
22	2747	99.9	2749	9	US-09-989-730-516 Sequence 516, App
23	2747	99.9	2749	9	US-09-990-436-516 Sequence 516, App
24	2747	99.9	2749	9	US-09-993-687-516 Sequence 516, App
25	2747	99.9	2749	10	US-09-989-734-516 Sequence 516, App
26	2747	99.9	2749	10	US-09-978-189-215 Sequence 215, App
27	2747	99.9	2749	10	US-09-997-653-516 Sequence 516, App
28	2747	99.9	2749	10	US-09-993-667-516 Sequence 516, App
29	2747	99.9	2749	10	US-09-997-428-516 Sequence 516, App
30	2747	99.9	2749	10	US-09-997-666-516 Sequence 516, App
31	2747	99.9	2749	10	US-09-990-438-516 Sequence 516, App
32	2747	99.9	2749	10	US-09-990-562-516 Sequence 516, App
33	2747	99.9	2749	10	US-09-990-711-516 Sequence 516, App
34	2747	99.9	2749	10	US-09-989-726-516 Sequence 516, App
35	2747	99.9	2749	10	US-09-998-156-516 Sequence 215, App
36	2747	99.9	2749	10	US-09-978-608A-215 Sequence 215, App
37	2747	99.9	2749	10	US-09-990-437-516 Sequence 516, App
38	2747	99.9	2749	10	US-09-978-585A-215 Sequence 215, App
39	2747	99.9	2749	10	US-09-991-157-516 Sequence 516, App
40	2747	99.9	2749	10	US-09-997-514-516 Sequence 516, App
41	2747	99.9	2749	10	US-09-997-573-516 Sequence 215, App
42	2747	99.9	2749	10	US-09-978-191A-215 Sequence 215, App
43	2747	99.9	2749	10	US-09-978-403A-215 Sequence 215, App
44	2747	99.9	2749	10	US-09-978-564A-215 Sequence 215, App
45	2747	99.9	2749	10	US-09-991-172-516 Sequence 516, App
46	2747	99.9	2749	10	US-09-990-726-516 Sequence 516, App
47	2747	99.9	2749	10	US-09-997-559-516 Sequence 516, App
48	2747	99.9	2749	10	US-09-997-601-516 Sequence 516, App
49	2747	99.9	2749	10	US-09-999-833A-215 Sequence 215, App
50	2747	99.9	2749	10	US-09-981-915A-215 Sequence 215, App
51	2747	99.9	2749	10	US-09-990-443-516 Sequence 516, App
52	2747	99.9	2749	10	US-09-978-824-215 Sequence 215, App
53	2747	99.9	2749	10	US-09-991-854-516 Sequence 516, App
54	2747	99.9	2749	10	US-09-997-628-516 Sequence 516, App
55	2747	99.9	2749	10	US-09-997-683-516 Sequence 516, App
56	2747	99.9	2749	10	US-09-989-729A-516 Sequence 516, App
57	2747	99.9	2749	10	US-09-997-349-516 Sequence 516, App
58	2747	99.9	2749	10	US-09-997-440-516 Sequence 516, App
59	2747	99.9	2749	10	US-09-918-585A-215 Sequence 215, App
60	2747	99.9	2749	10	US-09-990-440-516 Sequence 516, App
61	2747	99.9	2749	10	US-09-993-469-516 Sequence 516, App
62	2747	99.9	2749	10	US-09-997-542-516 Sequence 516, App
63	2747	99.9	2749	10	US-09-978-423A-215 Sequence 215, App
64	2747	99.9	2749	10	US-09-993-748-516 Sequence 516, App
65	2747	99.9	2749	10	US-09-990-439-516 Sequence 215, App
66	2747	99.9	2749	10	US-09-978-193A-215 Sequence 215, App
67	2747	99.9	2749	10	US-09-990-427-516 Sequence 516, App
68	2747	99.9	2749	10	US-09-989-328-516 Sequence 516, App
69	2747	99.9	2749	10	US-09-993-583-516 Sequence 215, App
70	2747	99.9	2749	10	US-09-999-830A-215 Sequence 215, App
71	2747	99.9	2749	10	US-09-941-992-516 Sequence 516, App
72	2747	99.9	2749	10	US-09-978-757A-215 Sequence 215, App
73	2747	99.9	2749	10	US-09-992-521-516 Sequence 516, App
74	2747	99.9	2749	10	US-09-997-333-516 Sequence 516, App
75	2747	99.9	2749	10	US-09-997-384-516 Sequence 215, App
76	2747	99.9	2749	10	US-09-978-187B-215 Sequence 215, App
77	2747	99.9	2749	10	US-09-978-643A-215 Sequence 516, App
78	2747	99.9	2749	10	US-09-998-041-516 Sequence 516, App
79	2747	99.9	2749	10	US-09-997-585-516 Sequence 516, App
80	2747	99.9	2749	10	US-09-997-614-516 Sequence 516, App
81	2747	99.9	2749	10	US-09-978-375A-215 Sequence 215, App
82	2747	99.9	2749	10	US-09-989-863-516 Sequence 516, App
83	2747	99.9	2749	10	US-09-997-529-516 Sequence 516, App
84	2747	99.9	2749	10	US-09-978-298A-215 Sequence 215, App
85	2747	99.9	2749	10	US-09-978-188A-215 Sequence 215, App
86	2747	99.9	2749	10	US-09-989-725-516 Sequence 516, App
87	2747	99.9	2749	10	US-09-978-681A-215 Sequence 215, App

88	2747	99.9	2749	10	US-09-978-194A-215	Sequence 215, App	161	2747	99.9	2749	15	US-10-140-921-385	Sequence 385, App
89	2747	99.9	2749	10	US-09-999-829A-215	Sequence 215, App	162	2747	99.9	2749	15	US-10-140-928-385	Sequence 385, App
90	2747	99.9	2749	10	US-09-978-299A-215	Sequence 215, App	163	2747	99.9	2749	15	US-10-013-929A-215	Sequence 215, App
91	2747	99.9	2749	10	US-09-978-544A-215	Sequence 215, App	164	2747	99.9	2749	15	US-10-016-177A-215	Sequence 215, App
92	2747	99.9	2749	10	US-09-978-665A-215	Sequence 215, App	165	2747	99.9	2749	15	US-10-121-045-385	Sequence 385, App
93	2747	99.9	2749	10	US-09-978-802A-215	Sequence 215, App	166	2747	99.9	2749	15	US-10-123-292-385	Sequence 385, App
94	2747	99.9	2749	11	US-09-989-733-516	Sequence 516, App	167	2747	99.9	2749	15	US-10-123-903-385	Sequence 385, App
95	2747	99.9	2749	11	US-09-992-643-516	Sequence 516, App	168	2747	99.9	2749	15	US-10-124-819-385	Sequence 385, App
96	2747	99.9	2749	13	US-10-147-493-385	Sequence 385, App	169	2747	99.9	2749	15	US-10-124-822-385	Sequence 385, App
97	2747	99.9	2749	13	US-10-164-749A-215	Sequence 215, App	170	2747	99.9	2749	15	US-10-140-925-385	Sequence 385, App
98	2747	99.9	2749	13	US-10-145-127-385	Sequence 385, App	171	2747	99.9	2749	15	US-10-160-498-385	Sequence 385, App
99	2747	99.9	2749	13	US-10-160-503-385	Sequence 385, App	172	2747	99.9	2749	15	US-10-124-824-385	Sequence 385, App
100	2747	99.9	2749	13	US-10-143-118-385	Sequence 385, App	173	2747	99.9	2749	15	US-10-127-825A-385	Sequence 385, App
101	2747	99.9	2749	13	US-10-144-993-385	Sequence 385, App	174	2747	99.9	2749	15	US-10-127-829A-385	Sequence 385, App
102	2747	99.9	2749	13	US-10-158-787-385	Sequence 385, App	175	2747	99.9	2749	15	US-10-127-835A-385	Sequence 385, App
103	2747	99.9	2749	13	US-10-081-056-59	Sequence 59, App	176	2747	99.9	2749	15	US-10-127-839A-385	Sequence 385, App
104	2747	99.9	2749	13	US-09-999-831A-215	Sequence 215, App	177	2747	99.9	2749	15	US-10-127-839A-385	Sequence 385, App
105	2747	99.9	2749	13	US-10-140-024-385	Sequence 385, App	178	2747	99.9	2749	15	US-10-127-901A-385	Sequence 385, App
106	2747	99.9	2749	13	US-10-013-917A-215	Sequence 215, App	179	2747	99.9	2749	15	US-10-128-693A-385	Sequence 385, App
107	2747	99.9	2749	13	US-09-989-724-516	Sequence 516, App	180	2747	99.9	2749	15	US-10-131-813A-385	Sequence 385, App
108	2747	99.9	2749	13	US-09-989-728-516	Sequence 516, App	181	2747	99.9	2749	15	US-10-131-818A-385	Sequence 385, App
109	2747	99.9	2749	13	US-09-990-441-516	Sequence 516, App	182	2747	99.9	2749	15	US-10-131-823A-385	Sequence 385, App
110	2747	99.9	2749	13	US-10-140-808-385	Sequence 385, App	183	2747	99.9	2749	15	US-10-131-824A-385	Sequence 385, App
111	2747	99.9	2749	13	US-09-997-857-516	Sequence 516, App	184	2747	99.9	2749	15	US-10-131-830A-385	Sequence 385, App
112	2747	99.9	2749	13	US-09-999-834A-215	Sequence 215, App	185	2747	99.9	2749	15	US-10-131-837A-385	Sequence 385, App
113	2747	99.9	2749	13	US-09-997-641-516	Sequence 516, App	186	2747	99.9	2749	15	US-10-137-872A-385	Sequence 385, App
114	2747	99.9	2749	13	US-09-991-150-516	Sequence 516, App	187	2747	99.9	2749	15	US-10-147-500-385	Sequence 385, App
115	2747	99.9	2749	13	US-10-152-405-385	Sequence 385, App	188	2747	99.9	2749	15	US-10-147-502-385	Sequence 385, App
116	2747	99.9	2749	13	US-10-162-521A-215	Sequence 215, App	189	2747	99.9	2749	15	US-10-147-517-385	Sequence 385, App
117	2747	99.9	2749	13	US-10-127-852A-385	Sequence 385, App	190	2747	99.9	2749	15	US-10-147-526-385	Sequence 385, App
118	2747	99.9	2749	13	US-10-127-900A-385	Sequence 385, App	191	2747	99.9	2749	15	US-10-147-527-385	Sequence 385, App
119	2747	99.9	2749	13	US-10-128-685A-385	Sequence 385, App	192	2747	99.9	2749	15	US-10-121-041-385	Sequence 385, App
120	2747	99.9	2749	13	US-10-131-820A-385	Sequence 385, App	193	2747	99.9	2749	15	US-10-121-043-385	Sequence 385, App
121	2747	99.9	2749	13	US-10-142-886-385	Sequence 385, App	194	2747	99.9	2749	15	US-10-121-047-385	Sequence 385, App
122	2747	99.9	2749	13	US-10-145-016A-215	Sequence 215, App	195	2747	99.9	2749	15	US-10-123-215-385	Sequence 385, App
123	2747	99.9	2749	13	US-10-145-088A-215	Sequence 215, App	196	2747	99.9	2749	15	US-10-123-902-385	Sequence 385, App
124	2747	99.9	2749	13	US-10-145-092A-215	Sequence 215, App	197	2747	99.9	2749	15	US-10-123-908-385	Sequence 385, App
125	2747	99.9	2749	13	US-10-145-129A-215	Sequence 215, App	198	2747	99.9	2749	15	US-10-123-909-385	Sequence 385, App
126	2747	99.9	2749	13	US-10-146-728-385	Sequence 385, App	199	2747	99.9	2749	15	US-10-123-910-385	Sequence 385, App
127	2747	99.9	2749	13	US-10-146-786-385	Sequence 385, App	200	2747	99.9	2749	15	US-10-124-813-385	Sequence 385, App
128	2747	99.9	2749	13	US-10-147-499-385	Sequence 385, App	201	2747	99.9	2749	15	US-10-124-817-385	Sequence 385, App
129	2747	99.9	2749	13	US-10-157-798-385	Sequence 385, App	202	2747	99.9	2749	15	US-10-125-922-385	Sequence 385, App
130	2747	99.9	2749	13	US-10-165-038A-215	Sequence 215, App	203	2747	99.9	2749	15	US-10-125-924-385	Sequence 385, App
131	2747	99.9	2749	13	US-10-165-353A-215	Sequence 215, App	204	2747	99.9	2749	15	US-10-140-860-385	Sequence 385, App
132	2747	99.9	2749	13	US-10-167-600-215	Sequence 215, App	205	2747	99.9	2749	15	US-10-142-417-385	Sequence 385, App
133	2747	99.9	2749	13	US-10-170-481A-215	Sequence 215, App	206	2747	99.9	2749	15	US-10-147-519-385	Sequence 385, App
134	2747	99.9	2749	13	US-10-172-039A-215	Sequence 215, App	207	2747	99.9	2749	15	US-10-157-782-385	Sequence 385, App
135	2747	99.9	2749	13	US-10-210-028-215	Sequence 215, App	208	2747	99.9	2749	15	US-10-152-395-385	Sequence 385, App
136	2747	99.9	2749	13	US-10-305-654-59	Sequence 59, App	209	2747	99.9	2749	15	US-10-125-926A-385	Sequence 385, App
137	2747	99.9	2749	15	US-10-028-072-385	Sequence 385, App	210	2747	99.9	2749	15	US-10-125-930A-385	Sequence 385, App
138	2747	99.9	2749	15	US-10-121-049-385	Sequence 385, App	211	2747	99.9	2749	15	US-10-127-831A-385	Sequence 385, App
139	2747	99.9	2749	15	US-10-123-904-385	Sequence 385, App	212	2747	99.9	2749	15	US-10-127-837A-385	Sequence 385, App
140	2747	99.9	2749	15	US-10-140-470-385	Sequence 385, App	213	2747	99.9	2749	15	US-10-127-838B-385	Sequence 385, App
141	2747	99.9	2749	15	US-10-175-746-385	Sequence 385, App	214	2747	99.9	2749	15	US-10-127-842A-385	Sequence 385, App
142	2747	99.9	2749	15	US-10-176-918-385	Sequence 385, App	215	2747	99.9	2749	15	US-10-127-843A-385	Sequence 385, App
143	2747	99.9	2749	15	US-10-176-921-385	Sequence 385, App	216	2747	99.9	2749	15	US-10-127-845A-385	Sequence 385, App
144	2747	99.9	2749	15	US-10-137-865-385	Sequence 385, App	217	2747	99.9	2749	15	US-10-127-846A-385	Sequence 385, App
145	2747	99.9	2749	15	US-10-140-474-385	Sequence 385, App	218	2747	99.9	2749	15	US-10-127-848A-385	Sequence 385, App
146	2747	99.9	2749	15	US-10-142-431-385	Sequence 385, App	219	2747	99.9	2749	15	US-10-127-849A-385	Sequence 385, App
147	2747	99.9	2749	15	US-10-143-114-385	Sequence 385, App	220	2747	99.9	2749	15	US-10-127-850A-385	Sequence 385, App
148	2747	99.9	2749	15	US-10-140-003-385	Sequence 385, App	221	2747	99.9	2749	15	US-10-127-851A-385	Sequence 385, App
149	2747	99.9	2749	15	US-10-142-419-385	Sequence 385, App	222	2747	99.9	2749	15	US-10-128-684A-385	Sequence 385, App
150	2747	99.9	2749	15	US-10-017-081A-215	Sequence 215, App	223	2747	99.9	2749	15	US-10-128-686A-385	Sequence 385, App
151	2747	99.9	2749	15	US-10-123-262-385	Sequence 385, App	224	2747	99.9	2749	15	US-10-128-690A-385	Sequence 385, App
152	2747	99.9	2749	15	US-10-142-423-385	Sequence 385, App	225	2747	99.9	2749	15	US-10-128-691A-385	Sequence 385, App
153	2747	99.9	2749	15	US-10-121-050-385	Sequence 385, App	226	2747	99.9	2749	15	US-10-131-819A-385	Sequence 385, App
154	2747	99.9	2749	15	US-10-141-755-385	Sequence 385, App	227	2747	99.9	2749	15	US-10-131-829A-385	Sequence 385, App
155	2747	99.9	2749	15	US-10-167-749-215	Sequence 215, App	228	2747	99.9	2749	15	US-10-131-836A-385	Sequence 385, App
156	2747	99.9	2749	15	US-10-143-032-385	Sequence 385, App	229	2747	99.9	2749	15	US-10-146-729-385	Sequence 385, App
157	2747	99.9	2749	15	US-10-013-921A-215	Sequence 215, App	230	2747	99.9	2749	15	US-10-146-791-385	Sequence 385, App
158	2747	99.9	2749	15	US-10-123-108-385	Sequence 385, App	231	2747	99.9	2749	15	US-10-147-484-385	Sequence 385, App
159	2747	99.9	2749	15	US-10-123-236-385	Sequence 385, App	232	2747	99.9	2749	15	US-10-147-508-385	Sequence 385, App
160	2747	99.9	2749	15	US-10-123-261-385	Sequence 385, App	233	2747	99.9	2749	15	US-10-147-512-385	Sequence 385, App

380	2747	99.9	2749	15	US-10-145-754-385	Sequence 385, App	453	2747	99.9	2749	15	US-10-147-496-385	Sequence 385, App
381	2747	99.9	2749	15	US-10-145-755-385	Sequence 385, App	454	2747	99.9	2749	15	US-10-147-505-385	Sequence 385, App
382	2747	99.9	2749	15	US-10-145-818-385	Sequence 385, App	455	2747	99.9	2749	15	US-10-147-516-385	Sequence 385, App
383	2747	99.9	2749	15	US-10-145-820-385	Sequence 385, App	456	2747	99.9	2749	15	US-10-152-398-385	Sequence 385, App
384	2747	99.9	2749	15	US-10-145-872-385	Sequence 385, App	457	2747	99.9	2749	15	US-10-139-980-385	Sequence 385, App
385	2747	99.9	2749	15	US-10-145-873-385	Sequence 385, App	458	2747	99.9	2749	15	US-10-165-067A-215	Sequence 215, App
386	2747	99.9	2749	15	US-10-147-481-385	Sequence 385, App	459	2747	99.9	2749	15	US-10-145-017A-215	Sequence 215, App
387	2747	99.9	2749	15	US-10-147-482-385	Sequence 385, App	460	2747	99.9	2749	15	US-10-145-750-385	Sequence 385, App
388	2747	99.9	2749	15	US-10-147-503-385	Sequence 385, App	461	2747	99.9	2749	15	US-10-152-373-385	Sequence 385, App
389	2747	99.9	2749	15	US-10-147-522-385	Sequence 385, App	462	2747	99.9	2749	15	US-10-164-728A-215	Sequence 215, App
390	2747	99.9	2749	15	US-10-152-401-385	Sequence 385, App	463	2747	99.9	2749	15	US-10-223-081-59	Sequence 59, Appl
391	2747	99.9	2749	15	US-10-157-783-385	Sequence 385, App	464	2747	99.9	2749	15	US-10-013-928A-215	Sequence 215, App
392	2747	99.9	2749	15	US-10-158-792-385	Sequence 385, App	465	2747	99.9	2749	15	US-10-165-247A-215	Sequence 215, App
393	2747	99.9	2749	15	US-10-158-462-385	Sequence 385, App	466	2747	99.9	2749	15	US-10-145-124A-215	Sequence 215, App
394	2747	99.9	2749	15	US-10-143-035-385	Sequence 385, App	467	2747	99.9	2749	15	US-10-160-502A-215	Sequence 215, App
395	2747	99.9	2749	15	US-10-145-751-385	Sequence 385, App	468	2747	99.9	2749	15	US-10-121-044-385	Sequence 385, App
396	2747	99.9	2749	15	US-10-145-822-385	Sequence 385, App	469	2747	99.9	2749	15	US-10-121-055-385	Sequence 385, App
397	2747	99.9	2749	15	US-10-145-824-385	Sequence 385, App	470	2747	99.9	2749	15	US-10-121-057-385	Sequence 385, App
398	2747	99.9	2749	15	US-10-145-827-385	Sequence 385, App	471	2747	99.9	2749	15	US-10-121-058-385	Sequence 385, App
399	2747	99.9	2749	15	US-10-145-869-385	Sequence 385, App	472	2747	99.9	2749	15	US-10-121-059-385	Sequence 385, App
400	2747	99.9	2749	15	US-10-145-875-385	Sequence 385, App	473	2747	99.9	2749	15	US-10-121-060-385	Sequence 385, App
401	2747	99.9	2749	15	US-10-145-877-385	Sequence 385, App	474	2747	99.9	2749	15	US-10-123-109-385	Sequence 385, App
402	2747	99.9	2749	15	US-10-145-958-385	Sequence 385, App	475	2747	99.9	2749	15	US-10-123-154-385	Sequence 385, App
403	2747	99.9	2749	15	US-10-146-787-385	Sequence 385, App	476	2747	99.9	2749	15	US-10-123-157-385	Sequence 385, App
404	2747	99.9	2749	15	US-10-146-790-385	Sequence 385, App	477	2747	99.9	2749	15	US-10-123-906-385	Sequence 385, App
405	2747	99.9	2749	15	US-10-146-793-385	Sequence 385, App	478	2747	99.9	2749	15	US-10-124-814-385	Sequence 385, App
406	2747	99.9	2749	15	US-10-147-480-385	Sequence 385, App	479	2747	99.9	2749	15	US-10-124-816-385	Sequence 385, App
407	2747	99.9	2749	15	US-10-147-485-385	Sequence 385, App	480	2747	99.9	2749	15	US-10-124-820-385	Sequence 385, App
408	2747	99.9	2749	15	US-10-147-486-385	Sequence 385, App	481	2747	99.9	2749	15	US-10-125-704-385	Sequence 385, App
409	2747	99.9	2749	15	US-10-147-487-385	Sequence 385, App	482	2747	99.9	2749	15	US-10-125-927-385	Sequence 385, App
410	2747	99.9	2749	15	US-10-147-490-385	Sequence 385, App	483	2747	99.9	2749	15	US-10-223-082-59	Sequence 59, Appl
411	2747	99.9	2749	15	US-10-147-494-385	Sequence 385, App	484	2747	99.9	2749	15	US-10-145-087A-215	Sequence 215, App
412	2747	99.9	2749	15	US-10-147-498-385	Sequence 385, App	485	2747	99.9	2749	15	US-10-017-086A-215	Sequence 215, App
413	2747	99.9	2749	15	US-10-147-514-385	Sequence 385, App	486	2747	99.9	2749	15	US-10-142-889-385	Sequence 385, App
414	2747	99.9	2749	15	US-10-147-524-385	Sequence 385, App	487	2747	99.9	2749	15	US-10-145-874-385	Sequence 385, App
415	2747	99.9	2749	15	US-10-152-379-385	Sequence 385, App	488	2747	99.9	2749	15	US-10-147-497-385	Sequence 385, App
416	2747	99.9	2749	15	US-10-152-394-385	Sequence 385, App	489	2747	99.9	2749	15	US-10-152-371-385	Sequence 385, App
417	2747	99.9	2749	15	US-10-152-394-385	Sequence 385, App	490	2747	99.9	2749	15	US-10-152-374-385	Sequence 385, App
418	2747	99.9	2749	15	US-10-152-406-385	Sequence 385, App	491	2747	99.9	2749	15	US-10-152-374-385	Sequence 385, App
419	2747	99.9	2749	15	US-10-156-847-385	Sequence 385, App	492	2747	99.9	2749	15	US-10-152-377-385	Sequence 385, App
420	2747	99.9	2749	15	US-10-157-778-385	Sequence 385, App	493	2747	99.9	2749	15	US-10-152-386-385	Sequence 385, App
421	2747	99.9	2749	15	US-10-157-799-385	Sequence 385, App	494	2747	99.9	2749	15	US-10-152-391-385	Sequence 385, App
422	2747	99.9	2749	15	US-10-160-504-385	Sequence 385, App	495	2747	99.9	2749	15	US-10-152-399-385	Sequence 385, App
423	2747	99.9	2749	15	US-10-017-191A-215	Sequence 215, App	496	2747	99.9	2749	15	US-10-156-848-385	Sequence 385, App
424	2747	99.9	2749	15	US-10-145-634-385	Sequence 385, App	497	2747	99.9	2749	15	US-10-157-785-385	Sequence 385, App
425	2747	99.9	2749	15	US-10-147-520-385	Sequence 385, App	498	2747	99.9	2749	15	US-10-157-794-385	Sequence 385, App
426	2747	99.9	2749	15	US-10-157-781-385	Sequence 385, App	499	2747	99.9	2749	15	US-10-157-796-385	Sequence 385, App
427	2747	99.9	2749	15	US-10-176-989-385	Sequence 385, App	500	2747	99.9	2749	15	US-10-157-796-385	Sequence 385, App
428	2747	99.9	2749	15	US-10-147-491-385	Sequence 385, App	501	2747	99.9	2749	15	US-10-160-500-385	Sequence 215, App
429	2747	99.9	2749	15	US-10-152-387-385	Sequence 385, App	502	2747	99.9	2749	15	US-10-164-829A-215	Sequence 215, App
430	2747	99.9	2749	15	US-10-152-382-385	Sequence 385, App	503	2747	99.9	2749	15	US-10-121-046-385	Sequence 385, App
431	2747	99.9	2749	15	US-10-152-383-385	Sequence 385, App	504	2747	99.9	2749	15	US-10-121-046-385	Sequence 385, App
432	2747	99.9	2749	15	US-10-152-384-385	Sequence 385, App	505	2747	99.9	2749	15	US-10-123-156-385	Sequence 385, App
433	2747	99.9	2749	15	US-10-152-387-385	Sequence 385, App	506	2747	99.9	2749	15	US-10-123-214-385	Sequence 385, App
434	2747	99.9	2749	15	US-10-152-389-385	Sequence 385, App	507	2747	99.9	2749	15	US-10-125-805-385	Sequence 385, App
435	2747	99.9	2749	15	US-10-152-390-385	Sequence 385, App	508	2747	99.9	2749	15	US-10-013-922A-215	Sequence 215, App
436	2747	99.9	2749	15	US-10-152-392-385	Sequence 385, App	509	2747	99.9	2749	15	US-10-020-445A-215	Sequence 215, App
437	2747	99.9	2749	15	US-10-152-403-385	Sequence 385, App	510	2747	99.9	2749	15	US-10-013-924A-215	Sequence 215, App
438	2747	99.9	2749	15	US-10-153-756-385	Sequence 385, App	511	2747	99.9	2749	15	US-10-124-821-385	Sequence 385, App
439	2747	99.9	2749	15	US-10-157-784-385	Sequence 385, App	512	2747	99.9	2749	15	US-10-152-385-385	Sequence 385, App
440	2747	99.9	2749	15	US-10-157-797-385	Sequence 385, App	513	2747	99.9	2749	15	US-10-152-393-385	Sequence 385, App
441	2747	99.9	2749	15	US-10-158-491-385	Sequence 385, App	514	2747	99.9	2749	15	US-10-152-396-385	Sequence 385, App
442	2747	99.9	2749	15	US-10-143-028A-215	Sequence 215, App	515	2747	99.9	2749	15	US-10-153-552-385	Sequence 385, App
443	2747	99.9	2749	15	US-10-143-029A-215	Sequence 215, App	516	2747	99.9	2749	15	US-10-153-840-385	Sequence 385, App
444	2747	99.9	2749	15	US-10-142-764-385	Sequence 385, App	517	2747	99.9	2749	15	US-10-156-841-385	Sequence 385, App
445	2747	99.9	2749	15	US-10-142-766-385	Sequence 385, App	518	2747	99.9	2749	15	US-10-156-844-385	Sequence 385, App
446	2747	99.9	2749	15	US-10-145-089A-215	Sequence 215, App	519	2747	99.9	2749	15	US-10-156-846-385	Sequence 385, App
447	2747	99.9	2749	15	US-10-145-625-385	Sequence 385, App	520	2747	99.9	2749	15	US-10-156-846-385	Sequence 385, App
448	2747	99.9	2749	15	US-10-145-627-385	Sequence 385, App	521	2747	99.9	2749	15	US-10-121-048-385	Sequence 385, App
449	2747	99.9	2749	15	US-10-145-627-385	Sequence 385, App	522	2747	99.9	2749	15	US-10-121-052-385	Sequence 385, App
450	2747	99.9	2749	15	US-10-145-960-385	Sequence 385, App	523	2747	99.9	2749	15	US-10-121-053-385	Sequence 385, App
451	2747	99.9	2749	15	US-10-145-962-385	Sequence 385, App	524	2747	99.9	2749	15	US-10-121-054-385	Sequence 385, App
452	2747	99.9	2749	15	US-10-146-789-385	Sequence 385, App	525	2747	99.9	2749	15	US-10-121-054-385	Sequence 385, App
453	2747	99.9	2749	15	US-10-147-493-385	Sequence 385, App	526	2747	99.9	2749	15	US-10-121-063-385	Sequence 385, App

526	2747	99.9	2749	15	US-10-123-212-385	Sequence 385, App	599	2747	99.9	2749	16	US-10-013-927A-215	Sequence 215, App
527	2747	99.9	2749	15	US-10-123-213-385	Sequence 385, App	600	2747	99.9	2749	16	US-10-219-538-516	Sequence 516, App
528	2747	99.9	2749	15	US-10-123-291-385	Sequence 385, App	601	2747	99.9	2749	16	US-10-147-528-385	Sequence 385, App
529	2747	99.9	2749	15	US-10-123-322-385	Sequence 385, App	602	2747	99.9	2749	16	US-10-145-093A-215	Sequence 215, App
530	2747	99.9	2749	15	US-10-123-771-385	Sequence 385, App	603	2747	99.9	2749	16	US-10-013-918A-215	Sequence 215, App
531	2747	99.9	2749	15	US-10-123-911-385	Sequence 385, App	604	2747	99.9	2749	16	US-10-013-920A-215	Sequence 215, App
532	2747	99.9	2749	15	US-10-124-823-385	Sequence 385, App	605	2747	99.9	2749	16	US-10-128-692A-385	Sequence 385, App
533	2747	99.9	2749	15	US-10-125-931-385	Sequence 385, App	606	2747	99.9	2749	16	US-10-140-927-385	Sequence 385, App
534	2747	99.9	2749	15	US-10-125-932-385	Sequence 385, App	607	2747	99.9	2749	17	US-10-147-536-385	Sequence 385, App
535	2747	99.9	2749	16	US-10-017-084A-215	Sequence 215, App	608	2747	99.9	2749	17	US-10-152-373-385	Sequence 385, App
536	2747	99.9	2749	16	US-10-123-913-385	Sequence 385, App	609	745.2	27.1	1060	13	US-10-302-172-222	Sequence 222, App
537	2747	99.9	2749	16	US-10-017-085A-215	Sequence 215, App	610	694.4	25.3	1111	17	US-10-467-593-74	Sequence 74, Appl
538	2747	99.9	2749	16	US-10-013-916A-215	Sequence 215, App	611	495.4	18.0	576	10	US-09-918-995-14694	Sequence 14694, A
539	2747	99.9	2749	16	US-10-137-867-385	Sequence 385, App	612	345.6	12.6	520	15	US-10-029-386-1283	Sequence 1283, Ap
540	2747	99.9	2749	16	US-10-140-473-385	Sequence 385, App	613	336	12.2	336	15	US-10-029-386-14985	Sequence 14985, A
541	2747	99.9	2749	16	US-10-140-806-385	Sequence 385, App	c 614	220.2	8.0	276276	13	US-10-087-192-754	Sequence 754, App
542	2747	99.9	2749	16	US-10-140-810-385	Sequence 385, App	c 615	218.6	8.0	11470	16	US-10-264-237-2859	Sequence 2859, Ap
543	2747	99.9	2749	16	US-10-140-863-385	Sequence 385, App	c 616	218.4	7.9	59588	15	US-10-017-161-2333	Sequence 2333, Ap
544	2747	99.9	2749	16	US-10-141-699-385	Sequence 385, App	c 617	218.4	7.9	59588	16	US-10-292-798-1879	Sequence 1879, Ap
545	2747	99.9	2749	16	US-10-141-703-385	Sequence 385, App	c 618	217.4	7.9	174448	13	US-10-087-192-148	Sequence 148, App
546	2747	99.9	2749	16	US-10-141-706-385	Sequence 385, App	c 619	217	7.9	12149	9	US-09-764-869-2258	Sequence 2258, Ap
547	2747	99.9	2749	16	US-10-141-757-385	Sequence 385, App	c 620	217	7.9	12149	15	US-10-091-504-2258	Sequence 2258, Ap
548	2747	99.9	2749	16	US-10-141-762-385	Sequence 385, App	c 621	217	7.9	12149	16	US-10-227-572-2358	Sequence 2258, Ap
549	2747	99.9	2749	16	US-10-142-428-385	Sequence 385, App	c 622	216.8	7.9	3613	13	US-10-027-632-261421	Sequence 261421, Ap
550	2747	99.9	2749	16	US-10-142-429-385	Sequence 385, App	c 623	216.8	7.9	3613	13	US-10-027-632-261422	Sequence 261422, Ap
551	2747	99.9	2749	16	US-10-142-884-385	Sequence 385, App	c 624	216.8	7.9	3613	16	US-10-027-632-261421	Sequence 261421, Ap
552	2747	99.9	2749	16	US-10-143-027-385	Sequence 385, App	c 625	216.8	7.9	3613	16	US-10-027-632-261422	Sequence 261422, Ap
553	2747	99.9	2749	16	US-10-143-115-385	Sequence 385, App	c 626	216.2	7.9	12879	17	US-10-304-098-4	Sequence 4, Appli
554	2747	99.9	2749	16	US-10-144-956-385	Sequence 385, App	c 627	216.2	7.9	392000	13	US-10-448-753-11	Sequence 11, Appl
555	2747	99.9	2749	16	US-10-144-958-385	Sequence 385, App	c 628	216.2	7.9	392000	15	US-10-027-983-11	Sequence 11, Appl
556	2747	99.9	2749	16	US-10-145-632-385	Sequence 385, App	c 629	216.2	7.9	465237	9	US-09-933-267A-1	Sequence 1, Appli
557	2747	99.9	2749	16	US-10-145-749-385	Sequence 385, App	c 630	216	7.9	44848	9	US-09-776-874A-42	Sequence 42, Appl
558	2747	99.9	2749	16	US-10-145-753-385	Sequence 385, App	c 631	216	7.9	44848	15	US-10-341-582-42	Sequence 42, Appl
559	2747	99.9	2749	16	US-10-145-871-385	Sequence 385, App	c 632	216	7.9	44848	15	US-10-384-451-42	Sequence 42, Appl
560	2747	99.9	2749	16	US-10-145-878-385	Sequence 385, App	c 633	216	7.9	44848	15	US-10-384-450-42	Sequence 42, Appl
561	2747	99.9	2749	16	US-10-146-794-385	Sequence 385, App	c 634	216	7.9	44848	16	US-10-371-218A-42	Sequence 42, Appl
562	2747	99.9	2749	16	US-10-147-489-385	Sequence 385, App	c 635	216	7.9	44848	16	US-10-456-573-42	Sequence 42, Appl
563	2747	99.9	2749	16	US-10-147-507-385	Sequence 385, App	c 636	216	7.9	44848	17	US-10-785-116-42	Sequence 42, Appl
564	2747	99.9	2749	16	US-10-147-535-385	Sequence 385, App	c 637	216	7.9	44848	9	US-09-967-768A-314	Sequence 314, App
565	2747	99.9	2749	16	US-10-147-537-385	Sequence 385, App	c 638	216	7.9	174424	10	US-09-960-708-969	Sequence 969, App
566	2747	99.9	2749	16	US-10-152-376-385	Sequence 385, App	c 639	215.2	7.8	143306	9	US-09-729-920-3	Sequence 3, Appli
567	2747	99.9	2749	16	US-10-152-381-385	Sequence 385, App	c 640	215.2	7.8	3224	13	US-10-027-632-113769	Sequence 113769, Ap
568	2747	99.9	2749	16	US-10-152-400-385	Sequence 385, App	c 641	215	7.8	3224	16	US-10-027-632-113769	Sequence 113769, Ap
569	2747	99.9	2749	16	US-10-153-585-385	Sequence 385, App	c 642	215	7.8	3224	10	US-09-764-891-8396	Sequence 8396, Ap
570	2747	99.9	2749	16	US-10-157-780-385	Sequence 385, App	c 643	215	7.8	27154	10	US-10-322-281-170	Sequence 170, App
571	2747	99.9	2749	16	US-10-157-800-385	Sequence 385, App	c 644	215	7.8	100445	9	US-09-875-114-2	Sequence 2, Appli
572	2747	99.9	2749	16	US-10-157-801-385	Sequence 385, App	c 645	214.8	7.8	22484	9	US-09-860-107-3341	Sequence 3341, Ap
573	2747	99.9	2749	16	US-10-157-802-385	Sequence 385, App	c 646	214.8	7.8	22484	17	US-10-450-826-103	Sequence 103, App
574	2747	99.9	2749	16	US-10-158-784-385	Sequence 385, App	c 647	214.8	7.8	22484	13	US-10-027-632-182759	Sequence 182759, Ap
575	2747	99.9	2749	16	US-10-158-789-385	Sequence 385, App	c 648	214.6	7.8	581	13	US-10-027-632-182760	Sequence 182760, Ap
576	2747	99.9	2749	16	US-10-192-011-385	Sequence 385, App	c 649	214.6	7.8	581	16	US-10-027-632-182759	Sequence 182759, Ap
577	2747	99.9	2749	16	US-10-139-963-385	Sequence 385, App	c 650	214.6	7.8	581	16	US-10-027-632-182760	Sequence 182760, Ap
578	2747	99.9	2749	16	US-10-140-020-385	Sequence 385, App	c 651	214.6	7.8	581	15	US-10-216-373-4	Sequence 4, Appli
579	2747	99.9	2749	16	US-10-140-023-385	Sequence 385, App	c 652	214.6	7.8	14581	15	US-10-085-117-172	Sequence 172, App
580	2747	99.9	2749	16	US-10-140-809-385	Sequence 385, App	c 653	214.4	7.8	101209	13	US-10-027-632-13619	Sequence 123619, Ap
581	2747	99.9	2749	16	US-10-140-865-385	Sequence 385, App	c 654	214	7.8	24318	17	US-10-027-632-13618	Sequence 123618, Ap
582	2747	99.9	2749	16	US-10-141-701-385	Sequence 385, App	c 655	213.8	7.8	72705	16	US-10-085-117-172	Sequence 123619, Ap
583	2747	99.9	2749	16	US-10-141-754-385	Sequence 385, App	c 656	213.6	7.8	31703	13	US-10-027-632-13618	Sequence 123618, Ap
584	2747	99.9	2749	16	US-10-141-760-385	Sequence 385, App	c 657	213.4	7.8	1243	13	US-10-027-632-13619	Sequence 123619, Ap
585	2747	99.9	2749	16	US-10-142-423-385	Sequence 385, App	c 658	213.4	7.8	1243	16	US-10-027-632-13618	Sequence 123618, Ap
586	2747	99.9	2749	16	US-10-142-430-385	Sequence 385, App	c 659	213.4	7.8	1243	16	US-10-027-632-13619	Sequence 123619, Ap
587	2747	99.9	2749	16	US-10-143-113-385	Sequence 385, App	c 660	213.4	7.8	1243	16	US-10-027-632-13619	Sequence 123619, Ap
588	2747	99.9	2749	16	US-10-146-730-385	Sequence 385, App	c 661	213.2	7.8	96898	16	US-10-417-476-3	Sequence 3, Appli
589	2747	99.9	2749	16	US-10-146-792-385	Sequence 385, App	c 662	213.2	7.8	99957	12	US-09-997-722-298	Sequence 298, App
590	2747	99.9	2749	16	US-10-158-791-385	Sequence 385, App	c 663	213	7.7	13855	16	US-10-375-741-11	Sequence 11, Appl
591	2747	99.9	2749	16	US-10-143-026B-215	Sequence 215, App	c 664	213	7.7	256157	13	US-10-087-192-1204	Sequence 1204, Ap
592	2747	99.9	2749	16	US-10-156-843-385	Sequence 385, App	c 665	213	7.7	256157	17	US-10-322-281-776	Sequence 776, App
593	2747	99.9	2749	16	US-10-157-786-385	Sequence 385, App	c 666	212.8	7.7	601	9	US-09-818-656A-83	Sequence 83, Appl
594	2747	99.9	2749	16	US-10-013-918A-215	Sequence 215, App	c 667	212.8	7.7	690	16	US-10-027-632-110926	Sequence 110926, Ap
595	2747	99.9	2749	16	US-10-013-928A-215	Sequence 215, App	c 668	212.8	7.7	690	16	US-10-027-632-110926	Sequence 110926, Ap
596	2747	99.9	2749	16	US-10-162-522A-215	Sequence 215, App	c 669	212.4	7.7	76670	13	US-10-087-192-2050	Sequence 2050, Ap
597	2747	99.9	2749	16	US-10-013-923A-215	Sequence 215, App	c 670	212.2	7.7	585	13	US-10-027-632-216514	Sequence 216514, Ap
598	2747	99.9	2749	16	US-10-013-925A-215	Sequence 215, App	c 671	212.2	7.7	585	16	US-10-027-632-216514	Sequence 216514, Ap

C 672	212	7.7	627	13	US-10-027-632-59774	Sequence 59774, A	C 745	209.8	7.6	44848	15	US-10-341-582-42	Sequence 42, Appl
C 673	212	7.7	627	13	US-10-027-632-59775	Sequence 59775, A	C 746	209.8	7.6	44848	15	US-10-384-451-42	Sequence 42, Appl
C 674	212	7.7	627	13	US-10-027-632-62063	Sequence 62063, A	C 747	209.8	7.6	44848	15	US-10-384-450-42	Sequence 42, Appl
C 675	212	7.7	627	13	US-10-027-632-309366	Sequence 309366, A	C 748	209.8	7.6	44848	16	US-10-371-218A-42	Sequence 42, Appl
C 676	212	7.7	627	13	US-10-027-632-309367	Sequence 309367, A	C 749	209.8	7.6	44848	16	US-10-456-573-42	Sequence 42, Appl
C 677	212	7.7	627	16	US-10-027-632-59774	Sequence 59774, A	C 750	209.8	7.6	44848	17	US-10-785-116-42	Sequence 42, Appl
C 678	212	7.7	627	16	US-10-027-632-59775	Sequence 59775, A	C 751	209.8	7.6	128668	13	US-10-087-192-340	Sequence 340, App
C 679	212	7.7	627	16	US-10-027-632-62063	Sequence 62063, A	C 752	209.4	7.6	611	13	US-10-027-632-256	Sequence 256, App
C 680	212	7.7	627	16	US-10-027-632-309366	Sequence 309366, A	C 753	209.4	7.6	611	16	US-10-027-632-256	Sequence 256, App
C 681	212	7.7	627	16	US-10-027-632-309367	Sequence 309367, A	C 754	209.4	7.6	631	13	US-10-027-632-268896	Sequence 268896, A
C 682	212	7.7	823	13	US-10-027-632-62075	Sequence 62075, A	C 755	209.4	7.6	631	16	US-10-027-632-268896	Sequence 268896, A
C 683	212	7.7	823	16	US-10-027-632-62075	Sequence 62075, A	C 756	209.4	7.6	809	13	US-10-027-632-29477	Sequence 29477, A
C 684	212	7.7	35236	13	US-10-087-192-370	Sequence 370, App	C 757	209.4	7.6	809	13	US-10-027-632-29478	Sequence 29478, A
C 685	212	7.7	40394	17	US-10-741-601-5774	Sequence 5774, App	C 758	209.4	7.6	809	16	US-10-027-632-29477	Sequence 29477, A
C 686	212	7.7	108316	16	US-10-292-798-1789	Sequence 1789, App	C 759	209.4	7.6	809	16	US-10-027-632-29478	Sequence 29478, A
C 687	212	7.7	108317	15	US-10-017-161-2143	Sequence 2143, App	C 760	209.4	7.6	127508	17	US-10-322-281-158	Sequence 158, App
C 688	211.8	7.7	621	13	US-10-027-632-260328	Sequence 260328, A	C 761	209.2	7.6	558	13	US-10-027-632-288369	Sequence 288369, A
C 689	211.8	7.7	621	16	US-10-027-632-260328	Sequence 260328, A	C 762	209.2	7.6	558	16	US-10-027-632-288369	Sequence 288369, A
C 690	211.8	7.7	849	15	US-10-106-698-120	Sequence 120, App	C 763	209.2	7.6	572	13	US-10-027-632-248418	Sequence 248418, A
C 691	211.6	7.7	17324	10	US-09-764-891-7727	Sequence 7727, App	C 764	209.2	7.6	572	16	US-10-027-632-248418	Sequence 248418, A
C 692	211.6	7.7	40645	9	US-09-818-656A-3	Sequence 3, Appli	C 765	209.2	7.6	87350	16	US-10-374-077-79	Sequence 79, Appl
C 693	211.6	7.7	40645	14	US-10-216-441-3	Sequence 3, Appli	C 766	209	7.6	451	13	US-10-027-632-192743	Sequence 192743, A
C 694	211.6	7.7	246144	16	US-10-085-117-226	Sequence 226, App	C 767	209	7.6	451	16	US-10-027-632-192743	Sequence 192743, A
C 695	211.4	7.7	567	13	US-10-027-632-256439	Sequence 256439, A	C 768	209	7.6	523	13	US-10-027-632-39525	Sequence 39525, A
C 696	211.4	7.7	567	16	US-10-027-632-256439	Sequence 256439, A	C 769	209	7.6	523	13	US-10-027-632-39525	Sequence 39525, A
C 697	211.4	7.7	793	13	US-10-027-632-143047	Sequence 143047, A	C 770	209	7.6	523	16	US-10-027-632-39525	Sequence 39525, A
C 698	211.4	7.7	793	13	US-10-027-632-143047	Sequence 143047, A	C 771	209	7.6	523	16	US-10-027-632-39525	Sequence 39525, A
C 699	211.4	7.7	793	16	US-10-027-632-143047	Sequence 143047, A	C 772	209	7.6	96595	12	US-10-052-482-232	Sequence 232, App
C 700	211.4	7.7	793	16	US-10-027-632-143047	Sequence 143047, A	C 773	209	7.6	243390	17	US-10-322-281-462	Sequence 462, App
C 701	211.4	7.7	46589	13	US-10-027-632-165653	Sequence 165653, A	C 774	208.8	7.6	757	13	US-10-027-632-148398	Sequence 148398, A
C 702	211.2	7.7	50000	17	US-10-087-192-1144	Sequence 6, Appli	C 775	208.8	7.6	757	16	US-10-027-632-148398	Sequence 148398, A
C 703	211.2	7.7	50000	17	US-10-364-505-6	Sequence 6, Appli	C 776	208.8	7.6	6275	11	US-09-984-423-298	Sequence 298, App
C 704	211	7.7	758	13	US-10-681-199-6	Sequence 124439, A	C 777	208.8	7.6	27411	13	US-10-087-192-940	Sequence 940, App
C 705	211	7.7	758	16	US-10-027-632-124439	Sequence 124439, A	C 778	208.8	7.6	48436	9	US-09-927-602-38	Sequence 38, Appl
C 706	211	7.7	1946	13	US-10-027-632-100143	Sequence 100143, A	C 779	208.8	7.6	61468	16	US-10-085-117-292	Sequence 292, App
C 707	211	7.7	1946	16	US-10-027-632-100143	Sequence 100143, A	C 780	208.6	7.6	100762	17	US-10-322-696-154	Sequence 154, App
C 708	211	7.7	99291	17	US-10-322-281-744	Sequence 744, App	C 781	208.6	7.6	60815	13	US-10-087-192-52	Sequence 52, Appl
C 709	211	7.7	285020	13	US-10-087-192-1666	Sequence 1666, App	C 782	208.6	7.6	96595	12	US-09-997-722-262	Sequence 262, App
C 710	211	7.7	300000	15	US-10-262-552-33	Sequence 33, Appl	C 783	208.6	7.6	186391	13	US-10-087-192-136	Sequence 136, App
C 711	211	7.7	300000	17	US-10-703-210-33	Sequence 33, Appl	C 784	208.4	7.6	503	13	US-10-027-632-262443	Sequence 262443, A
C 712	210.8	7.7	6096	13	US-10-012-6008-132	Sequence 132, App	C 785	208.4	7.6	503	16	US-10-027-632-262443	Sequence 262443, A
C 713	210.8	7.7	109906	13	US-10-235-192A-31	Sequence 31, Appl	C 786	208.4	7.6	4857	9	US-09-764-847-1929	Sequence 1929, App
C 714	210.6	7.7	1116	13	US-10-027-632-31138	Sequence 31138, A	C 787	208.4	7.6	4857	15	US-10-092-154-1929	Sequence 1929, App
C 715	210.6	7.7	1116	16	US-10-027-632-31138	Sequence 31138, A	C 788	208.4	7.6	10113	16	US-10-074-024-792	Sequence 792, App
C 716	210.6	7.7	3225	13	US-10-027-632-115939	Sequence 115939, A	C 789	208.4	7.6	11655	17	US-10-074-024-793	Sequence 793, App
C 717	210.6	7.7	3225	13	US-10-027-632-115940	Sequence 115940, A	C 790	208.4	7.6	49513	17	US-10-741-601-5613	Sequence 5613, App
C 718	210.6	7.7	3225	13	US-10-027-632-115940	Sequence 115940, A	C 791	208.4	7.6	50000	16	US-10-364-505-7	Sequence 7, Appli
C 719	210.6	7.7	3225	16	US-10-027-632-115939	Sequence 115939, A	C 792	208.4	7.6	50000	17	US-10-681-199-7	Sequence 7, Appli
C 720	210.6	7.7	3225	16	US-10-027-632-115939	Sequence 115940, A	C 793	208.4	7.6	78268	13	US-10-087-192-742	Sequence 742, App
C 721	210.6	7.7	3225	16	US-10-027-632-115940	Sequence 115940, A	C 794	208.4	7.6	174703	13	US-10-087-192-1336	Sequence 1336, App
C 722	210.4	7.7	10252	9	US-09-764-887-442	Sequence 442, App	C 795	208.2	7.6	2616	16	US-10-104-047-395	Sequence 395, App
C 723	210.4	7.7	10252	15	US-10-073-961-442	Sequence 442, App	C 796	208.2	7.6	2974	13	US-10-027-632-114365	Sequence 114365, A
C 724	210.4	7.7	94917	13	US-10-087-192-184	Sequence 184, App	C 797	208.2	7.6	2974	16	US-10-027-632-114365	Sequence 114365, A
C 725	210.4	7.7	174448	13	US-10-087-192-184	Sequence 184, App	C 798	208.2	7.6	75033	17	US-10-319-915-18	GENERAL INFORMAT
C 726	210.2	7.6	1743	13	US-09-764-891-6056	Sequence 6056, App	C 799	208.2	7.6	160267	15	US-10-240-425-1470	Sequence 1470, App
C 727	210.2	7.6	1743	13	US-10-091-414-236	Sequence 236, App	C 800	208.2	7.6	260209	15	US-10-265-071-23	Sequence 23, Appl
C 728	210.2	7.6	1746	10	US-09-764-891-6057	Sequence 6057, App	C 801	208.2	7.6	260209	15	US-10-025-966A-23	Sequence 23, Appl
C 729	210.2	7.6	1746	13	US-10-091-414-237	Sequence 237, App	C 802	208.2	7.6	439892	13	US-10-087-192-454	Sequence 454, App
C 730	210.2	7.6	5281	10	US-09-764-891-7789	Sequence 7789, App	C 803	208	7.6	1008	13	US-10-027-632-263136	Sequence 263136, A
C 731	210.2	7.6	5284	10	US-09-764-891-7788	Sequence 7788, App	C 804	208	7.6	1008	16	US-10-027-632-263136	Sequence 263136, A
C 732	210.2	7.6	19167	10	US-09-764-891-8028	Sequence 8028, App	C 805	208	7.6	1070	13	US-10-027-632-9418	Sequence 9418, App
C 733	210.2	7.6	32195	12	US-09-764-856-92	Sequence 92, Appl	C 806	208	7.6	1070	16	US-10-027-632-9418	Sequence 9418, App
C 734	210.2	7.6	32195	13	US-09-764-856-92	Sequence 92, Appl	C 807	208	7.6	2470	13	US-10-027-632-101883	Sequence 101883, A
C 735	210.2	7.6	32195	15	US-10-102-627-92	Sequence 92, Appl	C 808	208	7.6	2470	16	US-10-027-632-101883	Sequence 101883, A
C 736	210.2	7.6	46130	15	US-10-017-161-985	Sequence 985, App	C 809	208	7.6	3144	13	US-10-027-632-114635	

C 818	208	7.6	344548	13	US-10-087-192-334	Sequence 334, App	891	207	7.5	11696	15	US-10-115-928-49	Sequence 49, Appl
C 819	207.8	7.6	553	13	US-10-027-632-192683	Sequence 192683, App	C 892	207	7.5	11696	16	US-10-227-646-283	Sequence 283, App
C 820	207.8	7.6	553	13	US-10-027-632-192683	Sequence 192683, App	C 893	207	7.5	11696	16	US-10-227-646-284	Sequence 284, App
C 821	207.8	7.6	776	13	US-10-027-632-130053	Sequence 130053, App	C 894	207	7.5	11696	16	US-10-158-057-356	Sequence 356, App
C 822	207.8	7.6	776	13	US-10-027-632-130053	Sequence 130053, App	C 895	207	7.5	11696	16	US-10-158-057-357	Sequence 357, App
C 823	207.8	7.6	782	13	US-10-027-632-129004	Sequence 129004, App	C 896	207	7.5	45980	10	US-09-957-956-6	Sequence 6, Appli
C 824	207.8	7.6	782	13	US-10-027-632-129005	Sequence 129005, App	C 897	207	7.5	518360	17	US-10-367-094-125	Sequence 125, App
C 825	207.8	7.6	782	13	US-10-027-632-129006	Sequence 129006, App	C 898	207	7.5	518360	17	US-10-367-094-125	Sequence 125, App
C 826	207.8	7.6	782	13	US-10-027-632-129006	Sequence 129006, App	C 899	207	7.5	744802	16	US-10-292-798-1369	Sequence 1369, App
C 827	207.8	7.6	782	13	US-10-027-632-129005	Sequence 129005, App	C 900	206.8	7.5	633	13	US-10-027-632-272717	Sequence 272717, App
C 828	207.8	7.6	782	13	US-10-027-632-129006	Sequence 129006, App	C 901	206.8	7.5	633	13	US-10-027-632-272717	Sequence 272717, App
C 829	207.8	7.6	1701	10	US-09-728-552-9	Sequence 9, Appli	C 902	206.8	7.5	21784	9	US-09-820-002-3	Sequence 3, Appli
C 830	207.8	7.6	31828	13	US-10-087-192-736	Sequence 736, App	C 903	206.8	7.5	21784	9	US-10-274-031-3	Sequence 3, Appli
C 831	207.8	7.6	53332	9	US-09-801-861-3	Sequence 3, Appli	C 904	206.8	7.5	16938	17	US-10-322-281-566	Sequence 566, App
C 832	207.8	7.6	53332	9	US-10-224-562-3	Sequence 3, Appli	C 905	206.6	7.5	12970	10	US-09-764-891-7689	Sequence 7689, App
C 833	207.8	7.6	91352	17	US-10-300-611-4	Sequence 4, Appli	C 906	206.6	7.5	18853	15	US-10-109-856-3	Sequence 3, Appli
C 834	207.8	7.6	96599	16	US-10-085-117-100	Sequence 100, App	C 907	206.6	7.5	18853	17	US-10-767-341-3	Sequence 3, Appli
C 835	207.8	7.6	129042	13	US-10-087-192-1240	Sequence 1240, App	C 908	206.6	7.5	100445	17	US-10-322-281-170	Sequence 170, App
C 836	207.8	7.6	176001	17	US-10-087-192-556-27	Sequence 27, App	C 909	206.6	7.5	164875	16	US-10-085-117-322	Sequence 322, App
C 837	207.8	7.6	186739	17	US-10-210-556-27	Sequence 27, App	C 910	206.6	7.5	227931	16	US-10-085-117-274	Sequence 274, App
C 838	207.6	7.6	717	13	US-10-027-632-27294	Sequence 19, Appli	C 911	206.6	7.5	247682	13	US-10-235-192A-28	Sequence 28, Appl
C 839	207.6	7.6	717	13	US-10-027-632-27294	Sequence 27294, A	C 912	206.4	7.5	22517	17	US-10-322-281-636	Sequence 636, App
C 840	207.6	7.6	1767	16	US-10-104-047-1706	Sequence 1706, App	C 913	206.4	7.5	39000	10	US-09-957-956-5	Sequence 5, Appli
C 841	207.6	7.6	3125	16	US-10-104-047-1355	Sequence 1355, App	C 914	206.4	7.5	136726	16	US-10-085-117-244	Sequence 244, App
C 842	207.6	7.6	16553	16	US-10-264-237-2851	Sequence 2851, App	C 915	206.4	7.5	142976	17	US-10-367-094-99	Sequence 99, Appl
C 843	207.6	7.6	86001	17	US-10-317-500-4	Sequence 4, Appli	C 916	206.2	7.5	301477	17	US-10-322-281-456	Sequence 456, App
C 844	207.6	7.6	370469	13	US-10-087-192-250	Sequence 250, App	C 917	206.2	7.5	548	13	US-10-027-632-269631	Sequence 269631, App
C 845	207.4	7.5	670	13	US-10-027-632-99523	Sequence 99523, A	C 918	206.2	7.5	548	13	US-10-027-632-269631	Sequence 269631, App
C 846	207.4	7.5	670	13	US-10-027-632-99523	Sequence 99523, A	C 919	206.2	7.5	594	13	US-10-027-632-110818	Sequence 110818, App
C 847	207.4	7.5	670	13	US-10-027-632-99523	Sequence 99523, A	C 920	206.2	7.5	594	13	US-10-027-632-110818	Sequence 110818, App
C 848	207.4	7.5	670	13	US-10-027-632-99523	Sequence 99523, A	C 921	206.2	7.5	151870	17	US-10-741-601-5614	Sequence 5614, App
C 849	207.4	7.5	789	13	US-10-027-632-170285	Sequence 170285, App	C 922	206.2	7.5	217409	13	US-10-087-192-1954	Sequence 1954, App
C 850	207.4	7.5	2895	16	US-10-027-632-111563	Sequence 111563, App	C 923	206	7.5	598	13	US-10-027-632-78881	Sequence 78881, A
C 851	207.4	7.5	2895	16	US-10-027-632-111563	Sequence 111563, App	C 924	206	7.5	598	13	US-10-027-632-78881	Sequence 78881, A
C 852	207.4	7.5	2895	16	US-10-027-632-111563	Sequence 111563, App	C 925	206	7.5	625	13	US-10-027-632-78881	Sequence 78881, A
C 853	207.4	7.5	2895	16	US-10-027-632-111563	Sequence 111563, App	C 926	206	7.5	625	13	US-10-027-632-78881	Sequence 78881, A
C 854	207.4	7.5	2895	16	US-10-027-632-111563	Sequence 111563, App	C 927	206	7.5	625	13	US-10-027-632-78881	Sequence 78881, A
C 855	207.4	7.5	4513	16	US-10-264-237-2853	Sequence 2853, App	C 928	206	7.5	625	13	US-10-027-632-78881	Sequence 78881, A
C 856	207.4	7.5	27756	12	US-10-052-482-72	Sequence 72, App	C 929	206	7.5	625	13	US-10-027-632-78881	Sequence 78881, A
C 857	207.4	7.5	52242	12	US-10-052-482-172	Sequence 172, App	C 930	206	7.5	625	13	US-10-027-632-78881	Sequence 78881, A
C 858	207.4	7.5	52520	17	US-10-741-601-5700	Sequence 5700, App	C 931	206	7.5	625	13	US-10-027-632-78881	Sequence 78881, A
C 859	207.4	7.5	52745	17	US-10-741-601-5726	Sequence 5726, App	C 932	206	7.5	625	13	US-10-027-632-78881	Sequence 78881, A
C 860	207.4	7.5	61103	13	US-10-087-192-58	Sequence 58, Appli	C 933	206	7.5	625	13	US-10-027-632-78881	Sequence 78881, A
C 861	207.4	7.5	86361	17	US-10-741-601-5702	Sequence 5702, App	C 934	206	7.5	9745	9	US-09-764-869-2259	Sequence 2259, App
C 862	207.4	7.5	160361	13	US-10-235-192A-35	Sequence 35, Appli	C 935	206	7.5	9745	15	US-10-091-504-2259	Sequence 2259, App
C 863	207.4	7.5	169659	17	US-10-322-696-70	Sequence 70, Appli	C 936	206	7.5	9745	15	US-10-227-577-2259	Sequence 2259, App
C 864	207.4	7.5	301692	16	US-10-428-487-11	Sequence 11, Appli	C 937	206	7.5	15577	15	US-10-158-160A-8	Sequence 8, Appli
C 865	207.4	7.5	310268	17	US-10-367-094-195	Sequence 195, App	C 938	206	7.5	32367	15	US-10-158-160A-14	Sequence 14, Appli
C 866	207.2	7.5	4026	10	US-09-764-891-7901	Sequence 7901, App	C 939	206	7.5	102790	17	US-10-367-094-163	Sequence 163, App
C 867	207.2	7.5	64721	17	US-10-322-281-208	Sequence 208, App	C 940	206	7.5	123526	10	US-09-910-185-11	Sequence 11, Appli
C 868	207.2	7.5	66972	13	US-10-087-192-556	Sequence 556, App	C 941	206	7.5	181684	13	US-10-087-192-790	Sequence 790, App
C 869	207.2	7.5	139389	16	US-10-236-031B-61	Sequence 61, Appli	C 942	205.8	7.5	431	13	US-10-027-632-269632	Sequence 269632, App
C 870	207	7.5	645	9	US-09-764-877-1002	Sequence 1002, App	C 943	205.8	7.5	431	13	US-10-027-632-269632	Sequence 269632, App
C 871	207	7.5	645	16	US-10-242-515-1002	Sequence 1002, App	C 944	205.8	7.5	590	13	US-10-027-632-93928	Sequence 93928, A
C 872	207	7.5	683	9	US-09-764-877-1033	Sequence 1033, App	C 945	205.8	7.5	590	13	US-10-027-632-93928	Sequence 93928, A
C 873	207	7.5	683	16	US-10-242-515-1033	Sequence 1033, App	C 946	205.8	7.5	590	13	US-10-027-632-93928	Sequence 93928, A
C 874	207	7.5	2872	13	US-10-027-632-111861	Sequence 111861, App	C 947	205.8	7.5	590	16	US-10-027-632-93929	Sequence 93929, A
C 875	207	7.5	2872	13	US-10-027-632-111861	Sequence 111861, App	C 948	205.8	7.5	738	13	US-10-027-632-156444	Sequence 156444, App
C 876	207	7.5	2872	16	US-10-027-632-111861	Sequence 111861, App	C 949	205.8	7.5	738	13	US-10-027-632-156444	Sequence 156444, App
C 877	207	7.5	2872	16	US-10-027-632-111861	Sequence 111861, App	C 950	205.8	7.5	1863	16	US-10-027-632-97606	Sequence 97606, A
C 878	207	7.5	7661	9	US-09-860-670-282	Sequence 282, App	C 951	205.8	7.5	1863	16	US-10-027-632-97606	Sequence 97606, A
C 879	207	7.5	7661	13	US-09-764-861-47	Sequence 47, Appli	C 952	205.8	7.5	2147	9	US-09-764-847-1738	Sequence 1738, App
C 880	207	7.5	7661	13	US-09-764-861-47	Sequence 47, Appli	C 953	205.8	7.5	2147	15	US-10-092-154-1738	Sequence 1738, App
C 881	207	7.5	7661	16	US-10-115-928-47	Sequence 47, Appli	C 954	205.8	7.5	2758	15	US-10-037-270-884	Sequence 884, App
C 882	207	7.5	7661	16	US-10-227-646-282	Sequence 282, App	C 955	205.8	7.5	2758	16	US-10-117-722-884	Sequence 884, App
C 883	207	7.5	7661	16	US-10-227-646-282	Sequence 282, App	C 956	205.8	7.5	23307	10	US-09-764-891-5530	Sequence 5530, App
C 884	207	7.5	11696	9	US-09-860-670-284	Sequence 284, App	C 957	205.8	7.5	23307	13	US-09-764-891-5530	Sequence 5530, App
C 885	207	7.5	11696	9	US-09-860-670-284	Sequence 284, App	C 958	205.8	7.5	47318	10	US-10-087-192-1324	Sequence 1324, App
C 886	207	7.5	11696	10	US-09-764-861-48	Sequence 48, Appli	C 959	205.8	7.5	47318	12	US-09-997-722-106	Sequence 106, App
C 887	207	7.5	11696	10	US-09-764-861-48	Sequence 48, Appli	C 960	205.8	7.5	81968	17	US-10-322-696-142	Sequence 142, App
C 888	207	7.5	11696	13	US-09-764-861-48	Sequence 48, Appli	C 961	205.8	7.5	95109	17	US-10-433-287-80	Sequence 80, Appli
C 889	207	7.5	11696	13	US-09-764-861-48	Sequence 48, Appli	C 962	205.8	7.5	122656	17	US-10-322-281-846	Sequence 846, App
C 890	207	7.5	11696	15	US-10-115-928-48	Sequence 48, Appli	C 963	205.8	7.5	133893	14	US-10-161-510-1	Sequence 1, Appli

c 964	205.8	7.5	137000	16	US-10-172-911-11	Sequence 11, Appl	1037	205	7.5	67810	13	US-10-087-192-1738	Sequence 1738, Ap
c 965	205.8	7.5	166043	13	US-10-235-192A-46	Sequence 46, Appl	c1038	205	7.5	73995	13	US-10-087-192-208	Sequence 208, App
c 966	205.6	7.5	9620	10	US-09-764-891-8895	Sequence 8895, Ap	c1039	205	7.5	99886	13	US-10-087-192-328	Sequence 328, App
c 967	205.6	7.5	12932	9	US-09-764-847-1132	Sequence 1132, Ap	c1040	205	7.5	143306	9	US-09-729-920-3	Sequence 3, Appli
c 968	205.6	7.5	12932	15	US-10-092-154-1132	Sequence 1132, Ap	1041	205	7.5	445548	13	US-10-087-192-334	Sequence 334, Appl
c 969	205.6	7.5	52987	17	US-10-322-181-386	Sequence 386, App	1042	205	7.5	405660	17	US-10-322-632-82	Sequence 82, Appl
c 970	205.6	7.5	54169	13	US-10-087-192-1486	Sequence 1486, Ap	c1043	204.8	7.4	863	13	US-10-027-633-171652	Sequence 171652,
c 971	205.6	7.5	60461	16	US-10-341-434-82	Sequence 82, Appl	c1044	204.8	7.4	863	13	US-10-027-633-171653	Sequence 171653,
c 972	205.6	7.5	88445	17	US-10-322-281-724	Sequence 724, App	c1045	204.8	7.4	863	13	US-10-027-633-171654	Sequence 171654,
c 973	205.6	7.5	121434	17	US-10-303-165-11	Sequence 11, Appl	c1046	204.8	7.4	863	16	US-10-027-633-171652	Sequence 171652,
c 974	205.6	7.5	149480	10	US-09-873-367C-284	Sequence 284, App	c1047	204.8	7.4	863	16	US-10-027-633-171653	Sequence 171653,
c 975	205.6	7.5	149480	10	US-09-873-367C-285	Sequence 285, App	c1048	204.8	7.4	863	16	US-10-027-633-171654	Sequence 171654,
c 976	205.6	7.5	149480	12	US-09-968-007A-232	Sequence 232, App	c1049	204.8	7.4	913	13	US-10-027-633-9550	Sequence 9550, Ap
c 977	205.6	7.5	152501	17	US-10-316-231-4	Sequence 4, Appli	c1050	204.8	7.4	913	16	US-10-027-633-9550	Sequence 9550, Ap
c 978	205.6	7.5	203654	9	US-09-820-905-3	Sequence 3, Appli	1051	204.8	7.4	3226	16	US-10-108-260A-723	Sequence 723, App
c 979	205.6	7.5	235033	15	US-10-301-844-1	Sequence 1, Appli	1052	204.8	7.4	6319	9	US-09-995-494-58	Sequence 58, Appl
c 980	205.6	7.5	1691139	15	US-10-067-514-1	Sequence 1, Appli	c1053	204.8	7.4	7703	9	US-09-764-887-415	Sequence 415, App
c 981	205.6	7.5	1691139	16	US-10-419-723-1	Sequence 1, Appli	c1054	204.8	7.4	7703	9	US-09-764-887-456	Sequence 456, App
c 982	205.4	7.5	623	13	US-10-027-632-107058	Sequence 107058, A	c1055	204.8	7.4	7703	15	US-10-073-961-415	Sequence 415, App
c 983	205.4	7.5	623	16	US-10-027-632-107058	Sequence 107058, A	c1056	204.8	7.4	7703	15	US-10-073-961-456	Sequence 456, App
c 984	205.4	7.5	658	13	US-10-027-632-259880	Sequence 259880, A	c1057	204.8	7.4	21823	17	US-10-322-281-794	Sequence 794, App
c 985	205.4	7.5	658	16	US-10-027-632-259880	Sequence 259880, A	c1058	204.8	7.4	52093	16	US-10-085-117-256	Sequence 256, App
c 986	205.4	7.5	801	13	US-10-027-632-156334	Sequence 156334, A	1059	204.8	7.4	52710	17	US-10-322-281-572	Sequence 572, App
c 987	205.4	7.5	801	13	US-10-027-632-156335	Sequence 156335, A	c1060	204.8	7.4	55827	13	US-10-212-877-3	Sequence 3, Appli
c 988	205.4	7.5	801	16	US-10-027-632-156334	Sequence 156334, A	c1061	204.8	7.4	59856	13	US-10-087-192-220	Sequence 220, App
c 989	205.4	7.5	801	16	US-10-027-632-156335	Sequence 156335, A	1062	204.8	7.4	109586	13	US-10-087-192-220	Sequence 220, App
c 990	205.4	7.5	1735	10	US-09-764-891-7641	Sequence 7641, Ap	c1063	204.8	7.4	126001	16	US-10-175-493-13	Sequence 13, Appl
c 991	205.4	7.5	2033	13	US-10-027-632-99022	Sequence 99022, A	1064	204.8	7.4	139214	13	US-10-087-192-2038	Sequence 2038, Ap
c 992	205.4	7.5	2453	16	US-10-027-632-99022	Sequence 99022, A	c1065	204.8	7.4	23861	17	US-10-741-601-5611	Sequence 5611, Ap
c 993	205.4	7.5	4053	9	US-09-764-848-49	Sequence 49, Appl	c1066	204.8	7.4	256493	13	US-10-087-192-1000	Sequence 1000, Ap
c 994	205.4	7.5	4453	15	US-10-116-016-49	Sequence 49, Appl	c1067	204.8	7.4	261817	17	US-10-087-192-2002	Sequence 2002, Ap
c 995	205.4	7.5	4453	15	US-10-222-020-49	Sequence 49, Appl	1068	204.8	7.4	312477	17	US-10-317-883A-12	Sequence 12, Appl
c 996	205.4	7.5	95960	13	US-10-087-192-1384	Sequence 1384, Ap	c1069	204.6	7.4	605	13	US-10-027-633-274044	Sequence 274044,
c 997	205.4	7.5	95960	13	US-10-087-192-1390	Sequence 1390, Ap	c1070	204.6	7.4	605	13	US-10-027-633-274045	Sequence 274045,
c 998	205.4	7.5	104245	13	US-10-655-847-4	Sequence 4, Appli	c1071	204.6	7.4	605	16	US-10-027-632-274045	Sequence 274045,
c1000	205.4	7.5	104245	13	US-10-160-807-4	Sequence 4, Appli	1072	204.6	7.4	605	16	US-10-027-632-274045	Sequence 274045,
c1001	205.4	7.5	144723	13	US-10-087-192-1576	Sequence 1576, Ap	1073	204.6	7.4	1556	16	US-10-027-633-262328	Sequence 262328,
c1002	205.4	7.5	168749	17	US-10-085-117-250	Sequence 250, App	c1074	204.6	7.4	1556	16	US-10-027-633-262328	Sequence 262328,
c1003	205.4	7.5	170245	16	US-10-717-597-322	Sequence 322, App	1075	204.6	7.4	3254	13	US-10-027-633-114418	Sequence 114418,
c1004	205.4	7.5	175561	13	US-10-235-192A-48	Sequence 48, Appli	c1076	204.6	7.4	3254	16	US-10-027-633-114418	Sequence 114418,
c1005	205.4	7.5	175561	15	US-10-017-721-3	Sequence 3, Appli	1077	204.6	7.4	6892	9	US-09-764-877-3770	Sequence 3770, Ap
c1006	205.2	7.5	779	13	US-10-027-632-123904	Sequence 123904, A	c1078	204.6	7.4	6892	16	US-10-243-515-3770	Sequence 3770, Ap
c1007	205.2	7.5	779	16	US-10-027-632-123904	Sequence 123904, A	c1079	204.6	7.4	13968	9	US-09-764-869-2224	Sequence 2224, Ap
c1008	205.2	7.5	32190	9	US-09-764-887-338	Sequence 338, App	c1080	204.6	7.4	13968	15	US-10-091-504-2224	Sequence 2224, Ap
c1009	205.2	7.5	32190	15	US-10-073-961-338	Sequence 338, App	c1081	204.6	7.4	13968	16	US-10-227-577-2224	Sequence 2224, Ap
c1010	205.2	7.5	35360	17	US-10-322-281-152	Sequence 152, App	c1082	204.6	7.4	26667	17	US-10-741-601-5709	Sequence 5709, Ap
c1011	205.2	7.5	67088	17	US-10-741-601-5704	Sequence 5704, Ap	1083	204.6	7.4	29163	10	US-09-764-891-7809	Sequence 7809, Ap
c1012	205.2	7.5	135827	17	US-10-322-281-232	Sequence 232, App	1084	204.6	7.4	40645	9	US-09-818-656A-3	Sequence 3, Appli
c1013	205.2	7.5	136726	16	US-10-085-117-244	Sequence 244, App	c1085	204.6	7.4	40645	14	US-10-216-441-3	Sequence 3, Appli
c1014	205.2	7.5	198522	13	US-10-087-192-244	Sequence 244, App	c1086	204.6	7.4	40645	17	US-10-741-601-5703	Sequence 5703, Ap
c1015	205.2	7.5	230860	17	US-10-684-190-3	Sequence 3, Appli	c1087	204.6	7.4	40645	17	US-10-322-281-718	Sequence 718, App
c1016	205	7.5	512	13	US-10-027-632-266745	Sequence 266745, A	c1088	204.6	7.4	52710	17	US-10-322-281-572	Sequence 572, App
c1017	205	7.5	512	16	US-10-027-632-266745	Sequence 266745, A	c1089	204.6	7.4	58922	17	US-10-322-281-5269	Sequence 526, App
c1018	205	7.5	623	13	US-10-027-632-107059	Sequence 107059, A	c1090	204.6	7.4	75729	17	US-10-741-601-5649	Sequence 5649, Ap
c1019	205	7.5	623	16	US-10-027-632-107059	Sequence 107059, A	c1091	204.6	7.4	96595	12	US-10-052-483-232	Sequence 232, App
c1020	205	7.5	625	13	US-10-027-632-26201	Sequence 26201, A	c1092	204.6	7.4	105413	16	US-10-427-923-3	Sequence 3, Appli
c1021	205	7.5	625	13	US-10-027-632-26201	Sequence 26201, A	1093	204.6	7.4	108316	15	US-10-292-798-1789	Sequence 1789, Ap
c1022	205	7.5	625	16	US-10-027-632-26201	Sequence 26201, A	c1094	204.6	7.4	108317	15	US-10-017-161-2143	Sequence 2143, Ap
c1023	205	7.5	2255	13	US-10-027-632-101928	Sequence 101928, A	c1095	204.6	7.4	112241	17	US-10-322-281-656	Sequence 656, App
c1024	205	7.5	2255	13	US-10-027-632-101928	Sequence 101928, A	c1096	204.6	7.4	131576	13	US-10-087-192-1564	Sequence 1564, Ap
c1025	205	7.5	2255	16	US-10-027-632-101928	Sequence 101929, A	c1097	204.6	7.4	149671	16	US-10-236-031B-53	Sequence 53, Appl
c1026	205	7.5	2255	16	US-10-027-632-101929	Sequence 101929, A	1098	204.4	7.4	630	13	US-10-027-633-104227	Sequence 104227,
c1027	205	7.5	2814	13	US-10-027-632-112252	Sequence 112252, A	1099	204.4	7.4	630	16	US-10-027-633-325172	Sequence 325172,
c1028	205	7.5	2814	16	US-10-027-632-112252	Sequence 112252, A	1100	204.4	7.4	630	16	US-10-027-633-325172	Sequence 325172,
c1029	205	7.5	6122	13	US-10-225-567A-179	Sequence 179, App	1101	204.4	7.4	630	16	US-10-027-633-289924	Sequence 289924,
c1030	205	7.5	6122	17	US-0755-889-185	Sequence 185, App	1102	204.4	7.4	697	13	US-10-027-633-289924	Sequence 289924,
c1031	205	7.5	11627	10	US-09-764-891-10051	Sequence 10051, A	1103	204.4	7.4	1046	13	US-10-027-633-251984	Sequence 251984,
c1032	205	7.5	14012	9	US-09-819-994-3	Sequence 3, Appli	1105	204.4	7.4	1046	16	US-10-027-633-251984	Sequence 251984,
c1033	205	7.5	16062	10	US-09-764-891-8047	Sequence 8047, Ap	c1106	204.4	7.4	1105	16	US-10-027-633-119362	Sequence 119362,
c1034	205	7.5	17302	16	US-10-437-427-8	Sequence 8, Appli	c1107	204.4	7.4	1105	16	US-10-027-632-119362	Sequence 119362,
c1035	205	7.5	31277	13	US-10-087-192-1510	Sequence 1510, Ap	c1108	204.4	7.4	1332	14	US-10-080-644-1	Sequence 1, Appli
c1036	205	7.5	51289	17	US-10-322-281-648	Sequence 648, App	1109	204.4	7.4	5876	10	US-09-764-891-8264	Sequence 8264, Ap

c1110	204.4	7.4	10434	9	US-09-764-869-1668	Sequence 1668, Ap	1183	203.8	7.4	2112	16	US-10-027-632-103735	Sequence 103735,
c1111	204.4	7.4	10434	15	US-10-091-504-1668	Sequence 1668, Ap	1184	203.8	7.4	2547	16	US-10-104-047-819	Sequence 819, App
c1112	204.4	7.4	10434	16	US-10-227-577-1668	Sequence 1668, Ap	1185	203.8	7.4	15515	9	US-09-822-860-3	Sequence 3, Appli
c1113	204.4	7.4	36296	13	US-10-240-425-1594	Sequence 1584, Ap	c1186	203.8	7.4	28818	9	US-09-764-877-2266	Sequence 2266, Ap
c1114	204.4	7.4	53742	13	US-10-087-192-1534	Sequence 1534, Ap	c1187	203.8	7.4	28818	16	US-10-242-515-2266	Sequence 2266, Ap
c1115	204.4	7.4	58329	13	US-10-087-192-82	Sequence 82, Appli	c1188	203.8	7.4	81199	13	US-10-087-192-1150	Sequence 1150, Ap
c1116	204.4	7.4	90541	9	US-09-759-359A-3	Sequence 3, Appli	c1189	203.8	7.4	129042	13	US-10-087-192-1240	Sequence 1240, Ap
c1117	204.4	7.4	90541	15	US-10-207-973-3	Sequence 3, Appli	c1190	203.6	7.4	545	13	US-10-027-632-182850	Sequence 182850,
c1118	204.4	7.4	90541	17	US-10-799-676-3	Sequence 3, Appli	c1191	203.6	7.4	545	16	US-10-027-632-182850	Sequence 182850,
c1119	204.4	7.4	96595	16	US-10-034-650-34	Sequence 34, Appli	c1192	203.6	7.4	545	13	US-10-027-632-182850	Sequence 182850,
c1120	204.4	7.4	217409	13	US-10-087-192-1954	Sequence 1954, Ap	c1193	203.6	7.4	545	13	US-10-027-632-182850	Sequence 182850,
c1121	204.4	7.4	326014	9	US-09-731-231A-3	Sequence 3, Appli	c1194	203.6	7.4	545	13	US-10-027-632-182850	Sequence 182850,
c1122	204.4	7.4	326014	17	US-10-751-985-3	Sequence 3, Appli	c1195	203.6	7.4	545	13	US-10-027-632-182850	Sequence 182850,
c1123	204.2	7.4	508	13	US-10-027-632-128676	Sequence 128676, A	c1196	203.6	7.4	545	13	US-10-027-632-107686	Sequence 107686,
c1124	204.2	7.4	508	16	US-10-027-632-128676	Sequence 128676, A	c1197	203.6	7.4	545	13	US-10-027-632-107686	Sequence 107686,
c1125	204.2	7.4	600	13	US-10-027-632-47798	Sequence 47798, A	c1198	203.6	7.4	545	13	US-10-027-632-107686	Sequence 107686,
c1126	204.2	7.4	600	16	US-10-027-632-47798	Sequence 47798, A	c1199	203.6	7.4	545	13	US-10-027-632-107686	Sequence 107686,
c1127	204.2	7.4	605	13	US-10-027-632-274046	Sequence 274046, A	c1200	203.6	7.4	545	16	US-10-027-632-61459	Sequence 61459, A
c1128	204.2	7.4	605	16	US-10-027-632-274046	Sequence 274046, A	c1201	203.6	7.4	545	16	US-10-027-632-61459	Sequence 61459, A
c1129	204.2	7.4	617	13	US-10-027-632-96422	Sequence 96422, A	c1202	203.6	7.4	545	16	US-10-027-632-61460	Sequence 61460, A
c1130	204.2	7.4	617	16	US-10-027-632-96422	Sequence 96422, A	c1203	203.6	7.4	545	16	US-10-027-632-61461	Sequence 61461, A
c1131	204.2	7.4	617	13	US-10-027-632-96422	Sequence 96422, A	c1204	203.6	7.4	545	16	US-10-027-632-107686	Sequence 107686,
c1132	204.2	7.4	617	16	US-10-027-632-96422	Sequence 96422, A	c1205	203.6	7.4	545	16	US-10-027-632-107686	Sequence 107686,
c1133	204.2	7.4	928	13	US-10-027-632-164276	Sequence 164276, A	c1206	203.6	7.4	924	13	US-10-027-632-120562	Sequence 120562,
c1134	204.2	7.4	928	13	US-10-027-632-164276	Sequence 164276, A	c1207	203.6	7.4	924	13	US-10-027-632-120562	Sequence 120562,
c1135	204.2	7.4	928	16	US-10-027-632-164276	Sequence 164276, A	c1208	203.6	7.4	1154	13	US-10-027-632-107685	Sequence 107685,
c1137	204.2	7.4	1019	13	US-10-027-632-121622	Sequence 121622, A	c1209	203.6	7.4	1154	16	US-10-027-632-107685	Sequence 107685,
c1138	204.2	7.4	1019	13	US-10-027-632-121622	Sequence 121622, A	c1210	203.6	7.4	5088	9	US-09-764-869-1760	Sequence 1760, Ap
c1139	204.2	7.4	1019	16	US-10-027-632-121622	Sequence 121622, A	c1211	203.6	7.4	5088	10	US-09-764-891-5623	Sequence 5623, Ap
c1140	204.2	7.4	1019	16	US-10-027-632-121623	Sequence 121623, A	c1212	203.6	7.4	5088	10	US-09-764-891-5623	Sequence 5623, Ap
c1141	204.2	7.4	9192	9	US-09-764-847-1246	Sequence 1246, Ap	c1213	203.6	7.4	5088	10	US-09-764-891-5623	Sequence 5623, Ap
c1142	204.2	7.4	9192	9	US-09-764-877-2218	Sequence 2218, Ap	c1214	203.6	7.4	5088	10	US-09-764-891-5623	Sequence 5623, Ap
c1143	204.2	7.4	9192	15	US-10-092-154-1246	Sequence 1246, Ap	c1215	203.6	7.4	5088	11	US-09-984-429-224	Sequence 224, App
c1144	204.2	7.4	9192	16	US-10-242-515-2218	Sequence 2218, Ap	c1216	203.6	7.4	5088	11	US-09-984-429-224	Sequence 224, App
c1145	204.2	7.4	23618	13	US-10-087-192-4	Sequence 4, Appli	c1217	203.6	7.4	5088	15	US-10-091-504-1760	Sequence 1760, Ap
c1146	204.2	7.4	57082	17	US-10-715-066-1	Sequence 1, Appli	c1218	203.6	7.4	5088	15	US-10-091-504-1760	Sequence 1760, Ap
c1147	204.2	7.4	91749	13	US-10-087-192-550	Sequence 550, App	c1219	203.6	7.4	30000	16	US-10-227-577-1760	Sequence 1760, Ap
c1148	204.2	7.4	98686	16	US-10-189-267-20	Sequence 20, Appli	c1220	203.6	7.4	30000	17	US-10-007-010-10	Sequence 10, Appli
c1149	204.2	7.4	99014	9	US-09-880-107-3428	Sequence 3428, Ap	c1221	203.6	7.4	154902	17	US-10-450-826-105	Sequence 105, App
c1150	204.2	7.4	107820	10	US-09-792-616-1	Sequence 1, Appli	c1222	203.6	7.4	154902	13	US-10-087-192-622	Sequence 622, App
c1151	204.2	7.4	107820	17	US-10-764-328-1	Sequence 1, Appli	c1223	203.6	7.4	216929	17	US-10-741-601-5727	Sequence 5727, Ap
c1152	204	7.4	288	13	US-10-115-278-2	Sequence 2, Appli	c1224	203.6	7.4	347001	17	US-10-319-908-16	Sequence 16, Appli
c1153	204	7.4	641	13	US-10-027-632-255796	Sequence 255796, A	c1225	203.6	7.4	684973	9	US-09-263-959-1	Sequence 1, Appli
c1154	204	7.4	641	16	US-10-027-632-255796	Sequence 255796, A	c1226	203.4	7.4	471	10	US-09-918-995-13508	Sequence 13508, A
c1155	204	7.4	685	13	US-10-027-632-255796	Sequence 255796, A	c1227	203.4	7.4	708	16	US-10-012-697-187	Sequence 187, App
c1156	204	7.4	685	16	US-10-027-632-255796	Sequence 255796, A	c1228	203.4	7.4	746	13	US-10-027-632-265990	Sequence 262990,
c1157	204	7.4	1150	13	US-10-027-632-10014	Sequence 10014, A	c1229	203.4	7.4	746	16	US-10-027-632-265990	Sequence 262990,
c1158	204	7.4	1841	13	US-10-027-632-10014	Sequence 10014, A	c1230	203.4	7.4	1334	13	US-10-027-632-265790	Sequence 265790,
c1159	204	7.4	1841	16	US-09-798-889-40	Sequence 40, Appli	c1231	203.4	7.4	1334	16	US-10-027-632-265790	Sequence 265790,
c1160	204	7.4	15306	10	US-09-764-891-8252	Sequence 8252, Ap	c1232	203.4	7.4	1334	16	US-10-027-632-265790	Sequence 265790,
c1161	204	7.4	20530	10	US-09-764-891-8252	Sequence 8252, Ap	c1233	203.4	7.4	1334	16	US-10-027-632-265790	Sequence 265790,
c1162	204	7.4	20530	16	US-10-074-028-867	Sequence 867, App	c1234	203.4	7.4	2138	10	US-09-764-891-9884	Sequence 9884, Ap
c1163	204	7.4	31116	13	US-10-087-192-1660	Sequence 1660, Ap	c1235	203.4	7.4	32249	10	US-09-764-891-9884	Sequence 9884, Ap
c1165	204	7.4	36303	15	US-10-152-724A-24	Sequence 24, Appli	c1236	203.4	7.4	38374	12	US-09-880-107-34630	Sequence 34630, Ap
c1166	204	7.4	58822	12	US-10-052-482-46	Sequence 46, Appli	c1237	203.4	7.4	38374	9	US-09-968-007A-230	Sequence 230, App
c1167	204	7.4	59554	12	US-10-052-482-202	Sequence 202, Appli	c1238	203.4	7.4	38374	12	US-09-968-007A-231	Sequence 231, App
c1168	204	7.4	60153	15	US-10-222-334-7	Sequence 7, Appli	c1239	203.4	7.4	38374	12	US-09-968-007A-631	Sequence 631, App
c1169	204	7.4	84105	17	US-10-741-601-5637	Sequence 5637, Ap	c1240	203.4	7.4	50602	13	US-10-087-192-448	Sequence 448, App
c1170	204	7.4	118931	13	US-10-087-192-1108	Sequence 1108, Ap	c1241	203.4	7.4	50602	13	US-10-087-192-448	Sequence 448, App
c1171	204	7.4	304905	13	US-10-271-416-1	Sequence 1, Appli	c1242	203.4	7.4	62804	14	US-10-096-960-3	Sequence 3, Appli
c1172	203.8	7.4	2112	13	US-10-027-632-97357	Sequence 97357, A	c1243	203.4	7.4	75899	16	US-10-623-503-3	Sequence 3, Appli
c1173	203.8	7.4	2112	13	US-10-027-632-97358	Sequence 97358, A	c1244	203.4	7.4	75899	9	US-09-854-883-243	Sequence 243, App
c1174	203.8	7.4	2112	13	US-10-027-632-97359	Sequence 97359, A	c1245	203.4	7.4	75899	15	US-10-360-510-243	Sequence 243, App
c1175	203.8	7.4	2112	13	US-10-027-632-103733	Sequence 103733, A	c1246	203.4	7.4	113000	15	US-10-376-566-16	Sequence 16, Appli
c1176	203.8	7.4	2112	13	US-10-027-632-103734	Sequence 103734, A	c1247	203.4	7.4	193357	16	US-10-085-117-142	Sequence 142, App
c1177	203.8	7.4	2112	13	US-10-027-632-103735	Sequence 103735, A	c1248	203.4	7.4	193357	16	US-10-085-117-142	Sequence 142, App
c1178	203.8	7.4	2112	16	US-10-027-632-97357	Sequence 97357, A	c1249	203.4	7.4	193357	16	US-10-085-117-142	Sequence 142, App
c1179	203.8	7.4	2112	16	US-10-027-632-97358	Sequence 97358, A	c1250	203.2	7.4	630	13	US-10-027-632-125085	Sequence 125085,
c1180	203.8	7.4	2112	16	US-10-027-632-97359	Sequence 97359, A	c1251	203.2	7.4	630	16	US-10-027-632-125085	Sequence 125085,
c1181	203.8	7.4	2112	16	US-10-027-632-97359	Sequence 97359, A	c1252	203.2	7.4	1046	13	US-10-027-632-251985	Sequence 251985,
c1182	203.8	7.4	2112	16	US-10-027-632-103733	Sequence 103733, A	c1253	203.2	7.4	1046	16	US-10-027-632-251985	Sequence 251985,
						Sequence 103734, A	c1254	203.2	7.4	3347	16	US-10-027-632-116266	Sequence 116266,
							c1255	203.2	7.4	3347	16	US-10-027-632-116266	Sequence 116266,

[illegible]

1 PRIOR APPLICATION NUMBER: 60/066770
2 PRIOR FILING DATE: 1997-11-24
3 PRIOR APPLICATION NUMBER: 60/075945
4 PRIOR FILING DATE: 1998-02-25
5 PRIOR APPLICATION NUMBER: 60/078910
6 PRIOR FILING DATE: 1998-03-20
7 PRIOR APPLICATION NUMBER: 60/083322
8 PRIOR FILING DATE: 1998-04-28
9 PRIOR APPLICATION NUMBER: 60/084600
10 PRIOR FILING DATE: 1998-05-07
11 PRIOR APPLICATION NUMBER: 60/087106
12 PRIOR FILING DATE: 1998-05-28
13 PRIOR APPLICATION NUMBER: 60/087607
14 PRIOR FILING DATE: 1998-06-02
15 PRIOR APPLICATION NUMBER: 60/087609
16 PRIOR FILING DATE: 1998-06-02
17 PRIOR APPLICATION NUMBER: 60/087759
18 PRIOR FILING DATE: 1998-06-02
19 PRIOR APPLICATION NUMBER: 60/087827
20 PRIOR FILING DATE: 1998-06-03
21 PRIOR APPLICATION NUMBER: 60/088021
22 PRIOR FILING DATE: 1998-06-04
23 PRIOR APPLICATION NUMBER: 60/088025
24 PRIOR FILING DATE: 1998-06-04
25 PRIOR APPLICATION NUMBER: 60/088026
26 PRIOR FILING DATE: 1998-06-04
27 PRIOR APPLICATION NUMBER: 60/088028
28 PRIOR FILING DATE: 1998-06-04
29 PRIOR APPLICATION NUMBER: 60/088029
30 PRIOR FILING DATE: 1998-06-04
31 PRIOR APPLICATION NUMBER: 60/088030
32 PRIOR FILING DATE: 1998-06-04
33 PRIOR APPLICATION NUMBER: 60/088033
34 PRIOR FILING DATE: 1998-06-04
35 PRIOR APPLICATION NUMBER: 60/088326
36 PRIOR FILING DATE: 1998-06-04
37 PRIOR APPLICATION NUMBER: 60/088167
38 PRIOR FILING DATE: 1998-06-05
39 PRIOR APPLICATION NUMBER: 60/088202
40 PRIOR FILING DATE: 1998-06-05
41 PRIOR APPLICATION NUMBER: 60/088212
42 PRIOR FILING DATE: 1998-06-05
43 PRIOR APPLICATION NUMBER: 60/088217
44 PRIOR FILING DATE: 1998-06-05
45 PRIOR APPLICATION NUMBER: 60/088655
46 PRIOR FILING DATE: 1998-06-09
47 PRIOR APPLICATION NUMBER: 60/088734
48 PRIOR FILING DATE: 1998-06-10
49 PRIOR APPLICATION NUMBER: 60/088738
50 PRIOR FILING DATE: 1998-06-10
51 PRIOR APPLICATION NUMBER: 60/088742
52 PRIOR FILING DATE: 1998-06-10
53 PRIOR APPLICATION NUMBER: 60/088810
54 PRIOR FILING DATE: 1998-06-10
55 PRIOR APPLICATION NUMBER: 60/088824
56 PRIOR FILING DATE: 1998-06-10
57 PRIOR APPLICATION NUMBER: 60/088826
58 PRIOR FILING DATE: 1998-06-10
59 PRIOR APPLICATION NUMBER: 60/088858
60 PRIOR FILING DATE: 1998-06-11
61 PRIOR APPLICATION NUMBER: 60/088861
62 PRIOR FILING DATE: 1998-06-11
63 PRIOR APPLICATION NUMBER: 60/088876
64 PRIOR FILING DATE: 1998-06-11
65 PRIOR APPLICATION NUMBER: 60/089105
66 PRIOR FILING DATE: 1998-06-12
67 PRIOR APPLICATION NUMBER: 60/089440
68 PRIOR FILING DATE: 1998-06-16
69 PRIOR APPLICATION NUMBER: 60/089512
70 PRIOR FILING DATE: 1998-06-16
71 PRIOR APPLICATION NUMBER: 60/089514
72 PRIOR FILING DATE: 1998-06-16
73 PRIOR APPLICATION NUMBER: 60/089532
74 PRIOR FILING DATE: 1998-06-17
75 PRIOR APPLICATION NUMBER: 60/089538
76 PRIOR FILING DATE: 1998-06-17
77 PRIOR APPLICATION NUMBER: 60/089598
78 PRIOR FILING DATE: 1998-06-17
79 PRIOR APPLICATION NUMBER: 60/089599
80 PRIOR FILING DATE: 1998-06-17
81 PRIOR APPLICATION NUMBER: 60/089600
82 PRIOR FILING DATE: 1998-06-17
83 PRIOR APPLICATION NUMBER: 60/089653
84 PRIOR FILING DATE: 1998-06-17
85 PRIOR APPLICATION NUMBER: 60/089801
86 PRIOR FILING DATE: 1998-06-18
87 PRIOR APPLICATION NUMBER: 60/089907
88 PRIOR FILING DATE: 1998-06-18
89 PRIOR APPLICATION NUMBER: 60/089908
90 PRIOR FILING DATE: 1998-06-18
91 PRIOR APPLICATION NUMBER: 60/089947
92 PRIOR FILING DATE: 1998-06-19
93 PRIOR APPLICATION NUMBER: 60/089948
94 PRIOR FILING DATE: 1998-06-19
95 PRIOR APPLICATION NUMBER: 60/089952
96 PRIOR FILING DATE: 1998-06-19
97 PRIOR APPLICATION NUMBER: 60/090246
98 PRIOR FILING DATE: 1998-06-22
99 PRIOR APPLICATION NUMBER: 60/090252
100 PRIOR FILING DATE: 1998-06-22
101 PRIOR APPLICATION NUMBER: 60/090254
102 PRIOR FILING DATE: 1998-06-22
103 PRIOR APPLICATION NUMBER: 60/090349
104 PRIOR FILING DATE: 1998-06-23
105 PRIOR APPLICATION NUMBER: 60/090355
106 PRIOR FILING DATE: 1998-06-23
107 PRIOR APPLICATION NUMBER: 60/090429
108 PRIOR FILING DATE: 1998-06-24
109 PRIOR APPLICATION NUMBER: 60/090431
110 PRIOR FILING DATE: 1998-06-24
111 PRIOR APPLICATION NUMBER: 60/090435
112 PRIOR FILING DATE: 1998-06-24
113 PRIOR APPLICATION NUMBER: 60/090444
114 PRIOR FILING DATE: 1998-06-24
115 PRIOR APPLICATION NUMBER: 60/090445
116 PRIOR FILING DATE: 1998-06-24
117 PRIOR APPLICATION NUMBER: 60/090472
118 PRIOR FILING DATE: 1998-06-24
119 PRIOR APPLICATION NUMBER: 60/090535
120 PRIOR FILING DATE: 1998-06-24
121 PRIOR APPLICATION NUMBER: 60/090540
122 PRIOR FILING DATE: 1998-06-24
123 PRIOR APPLICATION NUMBER: 60/090542
124 PRIOR FILING DATE: 1998-06-24
125 PRIOR APPLICATION NUMBER: 60/090557
126 PRIOR FILING DATE: 1998-06-24
127 PRIOR APPLICATION NUMBER: 60/090676
128 PRIOR FILING DATE: 1998-06-25
129 PRIOR APPLICATION NUMBER: 60/090678
130 PRIOR FILING DATE: 1998-06-25
131 PRIOR APPLICATION NUMBER: 60/090690
132 PRIOR FILING DATE: 1998-06-25
133 PRIOR APPLICATION NUMBER: 60/090694
134 PRIOR FILING DATE: 1998-06-25
135 PRIOR APPLICATION NUMBER: 60/090695
136 PRIOR FILING DATE: 1998-06-25
137 PRIOR APPLICATION NUMBER: 60/090696
138 PRIOR FILING DATE: 1998-06-25
139 PRIOR APPLICATION NUMBER: 60/090862
140 PRIOR FILING DATE: 1998-06-26
141 PRIOR APPLICATION NUMBER: 60/090863
142 PRIOR FILING DATE: 1998-06-26
143 PRIOR APPLICATION NUMBER: 60/091360
144 PRIOR FILING DATE: 1998-07-01
145 PRIOR APPLICATION NUMBER: 60/091478
146 PRIOR FILING DATE: 1998-07-02

;	PRIOR APPLICATION NUMBER: 60/091544	
;	PRIOR FILING DATE: 1998-07-01	
;	PRIOR APPLICATION NUMBER: 60/091519	
;	PRIOR FILING DATE: 1998-07-02	
;	PRIOR APPLICATION NUMBER: 60/091626	
;	PRIOR FILING DATE: 1998-07-02	
;	PRIOR APPLICATION NUMBER: 60/091633	
;	PRIOR FILING DATE: 1998-07-02	
;	PRIOR APPLICATION NUMBER: 60/091978	
;	PRIOR FILING DATE: 1998-07-07	
;	PRIOR APPLICATION NUMBER: 60/091982	
;	PRIOR FILING DATE: 1998-07-07	
;	PRIOR APPLICATION NUMBER: 60/092182	
;	PRIOR FILING DATE: 1998-07-09	
Query Match 99.9%; Score 2747; DB 9; Length 2749;		
Best Local Similarity 100.0%; Pred. No. 0;		
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
Qy	1 CTCCACGGTGTCCAGCGCCAGGAATGCGGCTTCTGCTCTGCTATGCGGTTGCGTCTG 60	
Db	1 CTCCACGGTGTCCAGCGCCAGGAATGCGGCTTCTGCTCTGCTATGCGGTTGCGTCTG 60	
Qy	61 CTCCACGGTGTCCAGCGCCAGGAATGCGGCTTCTGCTCTGCTATGCGGTTGCGTCTG 120	
Db	61 CTCCACGGTGTCCAGCGCCAGGAATGCGGCTTCTGCTCTGCTATGCGGTTGCGTCTG 120	
Qy	121 GTGCTCCTGAGTGACCTACAGGAGAGAGCTGAGGAGCCACCGGAAGTACTGTGTCAGG 180	
Db	121 GTGCTCCTGAGTGACCTACAGGAGAGAGCTGAGGAGCCACCGGAAGTACTGTGTCAGG 180	
Qy	181 AAGGGTGGATCCTTTCTCTGCTGCTCTGCGCACCCTATGACAGAGAGAGAGGCCAG 240	
Db	181 AAGGGTGGATCCTTTCTCTGCTGCTCTGCGCACCCTATGACAGAGAGAGAGGCCAG 240	
Qy	241 GAGCAATGAGGGCAGGGTGTCCATTCGTGACAGCGGCAGAGCTCTCGTCAATTGTTG 300	
Db	241 GAGCAATGAGGGCAGGGTGTCCATTCGTGACAGCGGCAGAGCTCTCGTCAATTGTTG 300	
Qy	301 ACCCTGTGGAACCTACCTGCAAGAGCGTGGGGAGTACTGGTGGGGTGGAAAAAGG 360	
Db	301 ACCCTGTGGAACCTACCTGCAAGAGCGTGGGGAGTACTGGTGGGGTGGAAAAAGG 360	
Qy	361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTGCTCTTCCAGGACCTGCTGCTCC 420	
Db	361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTGCTCTTCCAGGACCTGCTGCTCC 420	
Qy	421 TCCCTTCTCCACCTTCAGCTCTGGCTACAACAGCGCTGACGCCCAAGGCAAAAGCT 480	
Db	421 TCCCTTCTCCACCTTCAGCTCTGGCTACAACAGCGCTGACGCCCAAGGCAAAAGCT 480	
Qy	481 CAGCAACCCAGCCCGGAGTGTCTCTCTGCGCTTACCCGGAGCCACCAAGCC 540	
Db	481 CAGCAACCCAGCCCGGAGTGTCTCTCTGCGCTTACCCGGAGCCACCAAGCC 540	
Qy	541 AAGCAGGGAAGACAGGGGCTGAGGCCCCCTCAATTGCCAGGACTTCCAGTACGGGCAC 600	
Db	541 AAGCAGGGAAGACAGGGGCTGAGGCCCCCTCAATTGCCAGGACTTCCAGTACGGGCAC 600	
Qy	601 GAAAGGATCTTCAGTACAGGAACCTCTCTCCACAGGAGCTCTCTCTCTGCGAGG 660	
Db	601 GAAAGGATCTTCAGTACAGGAACCTCTCTCCACAGGAGCTCTCTCTCTGCGAGG 660	
Qy	661 AGCTCCGGCCCCCAGTGCAGTGGATCTCACTCCAGGAGGACCAAGTCCAGCTCTC 720	
Db	661 AGCTCCGGCCCCCAGTGCAGTGGATCTCACTCCAGGAGGACCAAGTCCAGCTCTC 720	
Qy	721 AGCAGTGGCAGCTCTAAGCCAGGGTGTCCATCCGAGTGGTCCGATACTGGCCCCAGTC 780	
Db	721 AGCAGTGGCAGCTCTAAGCCAGGGTGTCCATCCGAGTGGTCCGATACTGGCCCCAGTC 780	
Qy	781 CTGGTCTGCTGAGCCTTCTGTGAGCGGAGCCTGATGCGCCTCTGTCAGGCCACTGCTC 840	

Qy	1921	GAAACCTTGGCTCCTTCCTTGCTGCTGAAGGGTTACTTCGCCTATGCGGTCTCGTGCGCTA	1980
Dd	1921	GAAACCTTGGCTCCTTCCTTGCTGCTGAAGGGTTACTTCGCCTATGCGGTCTCGTGCGCTA	1980
Qy	1981	GAGAGAAAAGTAGAAAAACAGAGTGCACTAGGTGTCATAACAAGAGAGAGTAGGAACA	2040
Dd	1981	GAGAGAAAAGTAGAAAAACAGAGTGCACTAGGTGTCATAACAAGAGAGAGTAGGAACA	2040
Qy	2041	GGGCGGATACCTGAAAGTGATCTCCGAGTCCAGGCCCTTGAGAGAAGGGTCGGGGGTGGTG	2100
Dd	2041	GGGCGGATACCTGAAAGTGATCTCCGAGTCCAGGCCCTTGAGAGAAGGGTCGGGGGTGGTG	2100
Qy	2101	GTAAGTAGACAACACTACTATTTTTTTCTTTTCCATTATTTATTTGTTTTTAAAGACAGA	2160
Dd	2101	GTAAGTAGACAACACTACTATTTTTTTCTTTTCCATTATTTATTTGTTTTTAAAGACAGA	2160
Qy	2161	ATCTCGTGTCTGCCCAGGCTGGAGTGCAGTGGCACGATCTGCAAACTCCGGCTCTCTGG	2220
Dd	2161	ATCTCGTGTCTGCCCAGGCTGGAGTGCAGTGGCACGATCTGCAAACTCCGGCTCTCTGG	2220
Qy	2221	GTTCAAAGTGATCTTTCTTGCCCTCAGCCTCCCGAGTAGCTGGGATTA CAGGCA CGCAC CCACC	2280
Dd	2221	GTTCAAAGTGATCTTTCTTGCCCTCAGCCTCCCGAGTAGCTGGGATTA CAGGCA CGCAC CCACC	2280
Qy	2281	ACACCTGGCTAAATTTTTTGTAATTTTACTGATGAGATGGGGTTTCCACCATGTTGGCCAGGCTG	2340
Dd	2281	ACACCTGGCTAAATTTTTTGTAATTTTACTGATGAGATGGGGTTTCCACCATGTTGGCCAGGCTG	2340
Qy	2341	GTCCTTGAACCTCTGACCTCAAAAGAGGCTCTCTGCTTCAGTCTCCC AAA T T G C C G G A T T A	2400
Dd	2341	GTCCTTGAACCTCTGACCTCAAAAGAGGCTCTCTGCTTCAGTCTCCC AAA T T G C C G G A T T A	2400
Qy	2401	CAGGCATGAGCCA CTGTGCTGGCCCTATTTTCCTTTAAAAAGTGAAATTAAGAGTTGTTCTC	2460
Dd	2401	CAGGCATGAGCCA CTGTGCTGGCCCTATTTTCCTTTAAAAAGTGAAATTAAGAGTTGTTCTC	2460
Qy	2461	AGTATGCAAACTTGGAAAGATGAGCAGAGAAAAGGAAAAGGAGAAAAAATGTCA C C C C A	2520
Dd	2461	AGTATGCAAACTTGGAAAGATGAGCAGAGAAAAGGAAAAGGAGAAAAAATGTCA C C C C A	2520
Qy	2521	TAGTCTCACAGAGACTATCATTTATTTGTTTTGTTGTA C T T C C T C C A C T C T T T T C T T C	2580
Dd	2521	TAGTCTCACAGAGACTATCATTTATTTGTTTTGTTGTA C T T C C T C C A C T C T T T T C T T C	2580
Qy	2581	TTGACATAATTTGGCGGTGTTCTTTTTTACAGAGCAATTA T C T T G T A T A T A C A C T T T G T A	2640
Dd	2581	TTGACATAATTTGGCGGTGTTCTTTTTTACAGAGCAATTA T C T T G T A T A T A C A C T T T G T A	2640
Qy	2641	TCCTGCTTTTCCACCTTATCGTTTCCACTTTATTCAGAGCACTTCTCTGTGTTTTTACA	2700
Dd	2641	TCCTGCTTTTCCACCTTATCGTTTCCACTTTATTCAGAGCACTTCTCTGTGTTTTTACA	2700
Qy	2701	GACCTTTTTTAAATAAAATGTTCAATCAGCTGCATATAAAAAAAAAAAAAA	2749
Dd	2701	GACCTTTTTTAAATAAAATGTTCAATCAGCTGCATATAAAAAAAAAAAAAA	2749

RESULT 2

RESULTS 2
US-09-989-723-516

US-09-383-723-316
; Sequence 516, Application US/09989723

; sequence no., application
; Patent No. US20020072092A1; FACILE NO. 032002007
; GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey

;	APPLICANT:	Godowski, Paul J.	
;	APPLICANT:	Grimaldi, J. Christopher	
;	APPLICANT:	Gurney, Austin L.	
;	APPLICANT:	Kljasin, Ivar J.	
;	APPLICANT:	Napier, Mary A.	
;	APPLICANT:	Pan, James	
;	APPLICANT:	Faoni, Nicholas F.	
;	APPLICANT:	Roy, Margaret Ann	
;	APPLICANT:	Stewart, Timothy A.	
;	APPLICANT:	Tumas, Daniel	
;	APPLICANT:	Watanabe, Colin K.	
;	APPLICANT:	Williams, P. Mickey	
;	APPLICANT:	Wood, William I.	
;	APPLICANT:	Zhang, Zemin	
;	TITLE OF INVENTION:	Secreted and Transmembrane Polypeptides and Nucleic	
;	TITLE OF INVENTION:	Acids Encoding the Same	
;	FILE REFERENCE:	P2730PIC62	
;	CURRENT APPLICATION NUMBER:	US/09/989,723	
;	CURRENT FILING DATE:	2001-11-19	
;	PRIOR APPLICATION NUMBER:	60/049787	
;	PRIOR FILING DATE:	1997-06-16	
;	PRIOR APPLICATION NUMBER:	60/062250	
;	PRIOR FILING DATE:	1997-10-17	
;	PRIOR APPLICATION NUMBER:	60/065186	
;	PRIOR FILING DATE:	1997-11-12	
;	PRIOR APPLICATION NUMBER:	60/065311	
;	PRIOR FILING DATE:	1997-11-13	
;	PRIOR APPLICATION NUMBER:	60/066770	
;	PRIOR FILING DATE:	1997-11-24	
;	PRIOR APPLICATION NUMBER:	60/075945	
;	PRIOR FILING DATE:	1998-02-25	
;	PRIOR APPLICATION NUMBER:	60/078910	
;	PRIOR FILING DATE:	1998-03-20	
;	PRIOR APPLICATION NUMBER:	60/083322	
;	PRIOR FILING DATE:	1998-04-28	
;	PRIOR APPLICATION NUMBER:	60/084600	
;	PRIOR FILING DATE:	1998-05-07	
;	PRIOR APPLICATION NUMBER:	60/087106	
;	PRIOR FILING DATE:	1998-05-28	
;	PRIOR APPLICATION NUMBER:	60/087607	
;	PRIOR FILING DATE:	1998-06-02	
;	PRIOR APPLICATION NUMBER:	60/087609	
;	PRIOR FILING DATE:	1998-06-02	
;	PRIOR APPLICATION NUMBER:	60/087759	
;	PRIOR FILING DATE:	1998-06-02	
;	PRIOR APPLICATION NUMBER:	60/087827	
;	PRIOR FILING DATE:	1998-06-03	
;	PRIOR APPLICATION NUMBER:	60/088021	
;	PRIOR FILING DATE:	1998-06-04	
;	PRIOR APPLICATION NUMBER:	60/088025	
;	PRIOR FILING DATE:	1998-06-04	
;	PRIOR APPLICATION NUMBER:	60/088026	
;	PRIOR FILING DATE:	1998-06-04	
;	PRIOR APPLICATION NUMBER:	60/088028	
;	PRIOR FILING DATE:	1998-06-04	
;	PRIOR APPLICATION NUMBER:	60/088029	
;	PRIOR FILING DATE:	1998-06-04	
;	PRIOR APPLICATION NUMBER:	60/088030	
;	PRIOR FILING DATE:	1998-06-04	
;	PRIOR APPLICATION NUMBER:	60/088033	
;	PRIOR FILING DATE:	1998-06-04	
;	PRIOR APPLICATION NUMBER:	60/088326	
;	PRIOR FILING DATE:	1998-06-04	
;	PRIOR APPLICATION NUMBER:	60/088167	
;	PRIOR FILING DATE:	1998-06-05	
;	PRIOR APPLICATION NUMBER:	60/088202	
;	PRIOR FILING DATE:	1998-06-05	
;	PRIOR APPLICATION NUMBER:	60/088212	
;	PRIOR FILING DATE:	1998-06-05	
;	PRIOR APPLICATION NUMBER:	60/088217	
;	PRIOR FILING DATE:	1998-06-05	
;	PRIOR APPLICATION NUMBER:	60/088655	
;	PRIOR FILING DATE:	1998-06-09	

```

; PRIOR APPLICATION NUMBER: 60/088734
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088742
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088810
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088824
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088826
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088858
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/089105
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089440
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089512
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089514
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089532
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089538
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089598
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089599
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089600
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089653
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089907
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089908
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089947
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/089948
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/089952
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/090246
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090252
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090254
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090349
; PRIOR FILING DATE: 1998-06-23
; PRIOR APPLICATION NUMBER: 60/090355
; PRIOR FILING DATE: 1998-06-23
; PRIOR APPLICATION NUMBER: 60/090429
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090431
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090435
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090444
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090445
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090472
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090535
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090540
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090542
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090676
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090678
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090690
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090694
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090695
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090696
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090862
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/090863
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/091360
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091478
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091519
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091626
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/09178
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 99.9%; Score 2747; DB 9; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTCACAGGTGTCACAGGCCAGAAATGCGGCTTCTGCTCTGCTATGGGGTTCCTCTG 60
Db 1 CTCACAGGTGTCACAGGCCAGAAATGCGGCTTCTGCTCTGCTATGGGGTTCCTCTG 60
Qy 61 CTCACAGGTGTCACAGGCCAGAAATGCGGCTTCTGCTCTGCTATGGGGTTCCTCTG 120
Db 61 CTCACAGGTGTCACAGGCCAGAAATGCGGCTTCTGCTCTGCTATGGGGTTCCTCTG 120
Qy 121 GTCTCCTGTCAGTGCACTTAACAGGAGAGCTGAGGACACCGGAGATGCTGTCAGG 180
Db 121 GTCTCCTGTCAGTGCACTTAACAGGAGAGCTGAGGACACCGGAGATGCTGTCAGG 180
Qy 181 AAGGTGGGATCCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
Db 181 AAGGTGGGATCCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
Qy 241 GAGACAATGAAGGGCAGGGGTGTCATCCGTCAGCAGCCGCGCAGAGCTCTGCTCATTTG 300
Db 241 GAGACAATGAAGGGCAGGGGTGTCATCCGTCAGCAGCCGCGCAGAGCTCTGCTCATTTG 300
Qy 301 ACCCTGTGGAACCTCAACCTGCAAGAGCTGGGAGTACTGGTGGGGTTCGAAAAACGG 360
Db 301 ACCCTGTGGAACCTCAACCTGCAAGAGCTGGGAGTACTGGTGGGGTTCGAAAAACGG 360
Qy 361 GGCCCCGATGAGTCTTTTACTGATCTCTCTGCTCTTTCCAGGACCTCTCTCTCTCTCC 420
Db 361 GGCCCCGATGAGTCTTTTACTGATCTCTCTGCTCTTTCCAGGACCTCTCTCTCTCTCC 420
```

Qy	421	TCCCTTTCTCCACACCTTTCAGCCTCTTGCTACAAACAGCCTGCAGGCCAAGGCCAAAGCT	480
Db	421	TCCCTTTCTCCACACCTTTCAGCCTCTTGCTACAAACAGCCTGCAGGCCAAGGCCAAAGCT	480
Qy	481	CAGCAAAACCAGACCCCCAGGATTTGACTTCTCTGGGCTCTACCCGGCAGACCCACAGCC	540
Db	481	CAGCAAAACCAGACCCCCAGGATTTGACTTCTCTGGGCTCTACCCGGCAGACCCACAGCC	540
Qy	541	AAGCAGGGGAAGACAGGGGGCTGAGGCCCTCTCAATTGCCAGGGACTTCCCAAGTACGGGCAC	600
Db	541	AAGCAGGGGAAGACAGGGGGCTGAGGCCCTCTCAATTGCCAGGGACTTCCCAAGTACGGGCAC	600
Qy	601	GAAGAAGACTTCTCAGTTACACAGGAACCTCTCTCACCCAGCGACCTCTCTCTGCAAGGG	660
Db	601	GAAGAAGACTTCTCAGTTACACAGGAACCTCTCTCACCCAGCGACCTCTCTCTGCAAGGG	660
Qy	661	AGCTCCCGCCCCCATATGCACTGCGACTCCACCTTCAGCAGAGACACCACTGCAGTCTCTC	720
Db	661	AGCTCCCGCCCCCATATGCACTGCGACTCCACCTTCAGCAGAGACACCACTGCAGTCTCTC	720
Qy	721	AGCAGTGGCAGCTCTAAGCCACAGGGTGTCCATCCCGATGTGCGCATATCTGGGCCCAAGTC	780
Db	721	AGCAGTGGCAGCTCTAAGCCACAGGGTGTCCATCCCGATGTGCGCATATCTGGGCCCAAGTC	780
Qy	781	CTGGTGCTGTGAGCCCTTCTGTACGCGCAGGGCTGTATCGCCTTCTGCACGACCTGTCTC	840
Db	781	CTGGTGCTGTGAGCCCTTCTGTACGCGCAGGGCTGTATCGCCTTCTGCACGACCTGTCTC	840
Qy	841	CTGTGGAGAAGGAAGCTCAACAGGCCACGGAGACACAGAGGAACGAGAAGTTCTTGCTC	900
Db	841	CTGTGGAGAAGGAAGCTCAACAGGCCACGGAGACACAGAGGAACGAGAAGTTCTTGCTC	900
Qy	901	TCAGCTTTGACTGCGGAGGAAGAGGAAGACCCCTTCCAGGCCCTTGAGGGGGAGCTGATC	960
Db	901	TCAGCTTTGACTGCGGAGGAAGAGGAAGACCCCTTCCAGGCCCTTGAGGGGGAGCTGATC	960
Qy	961	TCGATGCTCCCTCTCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG	1020
Db	961	TCGATGCTCCCTCTCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG	1020
Qy	1021	TAGGGCAGGAGGCCCTCTTGCCACAGGCCAGCAGTTGAAGCAGTATGGCTGGCTGGATCAGC	1080
Db	1021	TAGGGCAGGAGGCCCTCTTGCCACAGGCCAGCAGTTGAAGCAGTATGGCTGGCTGGATCAGC	1080
Qy	1081	ACCGATTCCGGAAGCTTCCACCTCAGCCTCAGAGTCCAGAGTCCCGGAGCTCCAGGGCT	1140
Db	1081	ACCGATTCCGGAAGCTTCCACCTCAGCCTCAGAGTCCAGAGTCCCGGAGCTCCAGGGCT	1140
Qy	1141	CTCCCCACCTTCCCGAGGCTCTCCTCTTGATGTTTCCAGGCTGACCTAGAGGGTTTGTGTC	1200
Db	1141	CTCCCCACCTTCCCGAGGCTCTCCTCTTGATGTTTCCAGGCTGACCTAGAGGGTTTGTGTC	1200
Qy	1201	AGCCTCGAGGCCAGAGGGGTGGCTTGTCTTTCGGCTGGAGACTGGGACATCCCTGAT	1260
Db	1201	AGCCTCGAGGCCAGAGGGGTGGCTTGTCTTTCGGCTGGAGACTGGGACATCCCTGAT	1260
Qy	1261	AGGTTTCACATCCCTGGGCAGAGTACCAGGCTGTGACCTCAGCAGGGGCCAGACAAGGCT	1320
Db	1261	AGGTTTCACATCCCTGGGCAGAGTACCAGGCTGTGACCTCAGCAGGGGCCAGACAAGGCT	1320
Qy	1321	CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACCTCTCTGGGCCCTCATGCCAGTGTGCG	1380
Db	1321	CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACCTCTCTGGGCCCTCATGCCAGTGTGCG	1380
Qy	1381	GACCTCGCTTCTCCCACTCCAGACCCCACTTGTCTTCCCTCCCTGGGGCTCTCAGAC	1440
Db	1381	GACCTCGCTTCTCCCACTCCAGACCCCACTTGTCTTCCCTCCCTGGGGCTCTCAGAC	1440
Qy	1441	TTAGTCCCAAGGCTCTCTGTCATCAGCTGGTGTGATGAAGAGGAGCATGCTGGGGGTGAGCTG	1500
Db	1441	TTAGTCCCAAGGCTCTCTGTCATCAGCTGGTGTGATGAAGAGGAGCATGCTGGGGGTGAGCTG	1500

QY	1501	GGATTCTGGGCTCTCTCTTTGAAACACACCTGCATCAGGCCCTTCAGAGAGCCCTGTGAAAAACG	1560
DB	1501	GGATTCTGGGCTCTCTCTTTGAAACACACCTGCATCAGGCCCTTCAGAGAGCCCTGTGAAAAACG	1560
QY	1561	TGATTCTGCGCCGCCACCAAGACCCACAAAAACATCTCTGGGGCTTGGTGAGGACTCTCTGA	1620
DB	1561	TGATTCTGCGCCGCCACCAAGACCCACAAAAACATCTCTGGGGCTTGGTGAGGACTCTCTGA	1620
QY	1621	ATTCTAAACAATGCCCACTGACTCTGCGACATTGAGTTTGGGGCCAGTGGGCCCTGATGAAC	1680
DB	1621	ATTCTAAACAATGCCCACTGACTCTGCGACATTGAGTTTGGGGCCAGTGGGCCCTGATGAAC	1680
QY	1681	GCTCACACCCCTTCAGCTTAGAGTCTGCACTTTGGGCTGTGACGCTCTCCACTGCCCCAAT	1740
DB	1681	GCTCACACCCCTTCAGCTTAGAGTCTGCACTTTGGGCTGTGACGCTCTCCACTGCCCCAAT	1740
QY	1741	AGATCTGCTCTGTCTCGGACACAGATCCACGCTGGGGACCTCCCTCAGGGCTCTCTAAGTC	1800
DB	1741	AGATCTGCTCTGTCTCGGACACAGATCCACGCTGGGGACCTCCCTCAGGGCTCTCTAAGTC	1800
QY	1801	CAGGCCCTTGGTCAGGTCAGGTGCAATTTGAGGATTAAGCCACGACCGGCACAGAAAGTGG	1860
DB	1801	CAGGCCCTTGGTCAGGTCAGGTGCAATTTGAGGATTAAGCCACGACCGGCACAGAAAGTGG	1860
QY	1861	TTGGCTTTNGCAATTTGGCCCTCCCTGNGNCATAGCTCTTTGGCCCTTTGAAAAAATGATGAA	1920
DB	1861	TTGGCTTTNGCAATTTGGCCCTCCCTGNGNCATAGCTCTTTGGCCCTTTGAAAAAATGATGAA	1920
QY	1921	GAAGAACTTGGCTCTCTTGTCTGGAAGGGTACTTGCCTATGSGTTCTCGTGGCTA	1980
DB	1921	GAAGAACTTGGCTCTCTTGTCTGGAAGGGTACTTGCCTATGSGTTCTCGTGGCTA	1980
QY	1981	GAGAGAAAAGTAGAAAAACAGAGTGACGTAGGTGTCTTAACACAGAGGAGGTAGGAACA	2040
DB	1981	GAGAGAAAAGTAGAAAAACAGAGTGACGTAGGTGTCTTAACACAGAGGAGGTAGGAACA	2040
QY	2041	GGGCGGATACCTGAAAGTGACTCCGAGTCCAGCCCCCTGGAGAAAGGGTTCGGGGTGGTG	2100
DB	2041	GGGCGGATACCTGAAAGTGACTCCGAGTCCAGCCCCCTGGAGAAAGGGTTCGGGGTGGTG	2100
QY	2101	GTAAAGTAGCACAACTACTATTTTTTTTCTTTTCCATTTATATCTTTTAAAGACAGA	2160
DB	2101	GTAAAGTAGCACAACTACTATTTTTTTTCTTTTCCATTTATATCTTTTAAAGACAGA	2160
QY	2161	ATCTCGTGCTGCTGCCCAGGCTGGAGTGACGTGGCACGATCTCCAAACTCCGCTCTCTGG	2220
DB	2161	ATCTCGTGCTGCTGCCCAGGCTGGAGTGACGTGGCACGATCTCCAAACTCCGCTCTCTGG	2220
QY	2221	GTTCAAGTGATTCTTTCTGCCCTCAGCCTCCGAGTAGCTGGGATTA CAGGCACGCACACC	2280
DB	2221	GTTCAAGTGATTCTTTCTGCCCTCAGCCTCCGAGTAGCTGGGATTA CAGGCACGCACACC	2280
QY	2281	ACACCTGGCTAAATTTTGTACTTTTAGTAGAGATGGGGTTTACCATTGTTGGCCAGGCTG	2340
DB	2281	ACACCTGGCTAAATTTTGTACTTTTAGTAGAGATGGGGTTTACCATTGTTGGCCAGGCTG	2340
QY	2341	GTCCTTGAACCTCCGACCTCAAAATGAGCCTCCTGCTTCAGTCTCCCAAATTTGCCGGGATTA	2400
DB	2341	GTCCTTGAACCTCCGACCTCAAAATGAGCCTCCTGCTTCAGTCTCCCAAATTTGCCGGGATTA	2400
QY	2401	CAGGCATGACCACTGTGTCTGGCCCTATTTCTTTAAAAAGTGAAATTAAGAGTTGTTTC	2460
DB	2401	CAGGCATGACCACTGTGTCTGGCCCTATTTCTTTAAAAAGTGAAATTAAGAGTTGTTTC	2460
QY	2461	AGTATGAAAACTTTGAAAGATGAGAGAAAAAGAAAGGAGAAAAAATATGTCAACCCA	2520
DB	2461	AGTATGAAAACTTTGAAAGATGAGAGAAAAAGAAAGGAGAAAAAATATGTCAACCCA	2520
QY	2521	TAGTCTCACAGAGACTATCATTTATTTTCTTTTGTGTACTCTCTCTCCACTCTTTTCTTC	2580
DB	2521	TAGTCTCACAGAGACTATCATTTATTTTCTTTTGTGTACTCTCTCTCCACTCTTTTCTTC	2580
QY	2581	TTACATAAATTTGGCGGTGTCTTTTTTACAGAGCAATTTATCTTTGTATATACAACTTGTGA	2640

Db 2581 TTCCATCAATTTGCGGTGTTCTTTTACAGACCAATTTCTTGATATATACAACTTTGTA 2640
Qy 2641 TCCTGCTTTTCCACCTTATCGTTCCATCACTTTATTCAGCACTTCTCTGTGTTTACA 2700
Db 2641 TCCTGCTTTTCCACCTTATCGTTCCATCACTTTATTCAGCACTTCTCTGTGTTTACA 2700
Qy 2701 GACCTTTTATAATAAATAATGTTTCATCAGCTGCATATAAAAAA 2749
Db 2701 GACCTTTTATAATAAATAATGTTTCATCAGCTGCATATAAAAAA 2749

RESULT 3

US-09-989-279-516
; Sequence 516, Application US/09989279
; Patent No. US20020072496A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Grittisen, Mary B.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730P1C56
; CURRENT APPLICATION NUMBER: US/09/989,279
; CURRENT FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827

; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088021
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088025
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088026
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088028
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088029
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088030
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088033
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088326
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088167
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088202
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088212
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088217
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088655
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: 60/088734
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088742
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088810
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088824
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088826
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088858
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/089105
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089440
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089512
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089514
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089532
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089538
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089598
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089599
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089600
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089653
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089907
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089908
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089947
; PRIOR FILING DATE: 1998-06-19

1	PRIOR APPLICATION NUMBER: 60/089948
2	PRIOR FILING DATE: 1998-06-19
3	PRIOR APPLICATION NUMBER: 60/089952
4	PRIOR FILING DATE: 1998-06-19
5	PRIOR APPLICATION NUMBER: 60/090246
6	PRIOR FILING DATE: 1998-06-22
7	PRIOR APPLICATION NUMBER: 60/090252
8	PRIOR FILING DATE: 1998-06-22
9	PRIOR APPLICATION NUMBER: 60/090254
10	PRIOR FILING DATE: 1998-06-22
11	PRIOR APPLICATION NUMBER: 60/090349
12	PRIOR FILING DATE: 1998-06-23
13	PRIOR APPLICATION NUMBER: 60/090355
14	PRIOR FILING DATE: 1998-06-23
15	PRIOR APPLICATION NUMBER: 60/090429
16	PRIOR FILING DATE: 1998-06-24
17	PRIOR APPLICATION NUMBER: 60/090431
18	PRIOR FILING DATE: 1998-06-24
19	PRIOR APPLICATION NUMBER: 60/090435
20	PRIOR FILING DATE: 1998-06-24
21	PRIOR APPLICATION NUMBER: 60/090444
22	PRIOR FILING DATE: 1998-06-24
23	PRIOR APPLICATION NUMBER: 60/090445
24	PRIOR FILING DATE: 1998-06-24
25	PRIOR APPLICATION NUMBER: 60/090472
26	PRIOR FILING DATE: 1998-06-24
27	PRIOR APPLICATION NUMBER: 60/090535
28	PRIOR FILING DATE: 1998-06-24
29	PRIOR APPLICATION NUMBER: 60/090540
30	PRIOR FILING DATE: 1998-06-24
31	PRIOR APPLICATION NUMBER: 60/090542
32	PRIOR FILING DATE: 1998-06-24
33	PRIOR APPLICATION NUMBER: 60/090557
34	PRIOR FILING DATE: 1998-06-24
35	PRIOR APPLICATION NUMBER: 60/090676
36	PRIOR FILING DATE: 1998-06-25
37	PRIOR APPLICATION NUMBER: 60/090678
38	PRIOR FILING DATE: 1998-06-25
39	PRIOR APPLICATION NUMBER: 60/090690
40	PRIOR FILING DATE: 1998-06-25
41	PRIOR APPLICATION NUMBER: 60/090694
42	PRIOR FILING DATE: 1998-06-25
43	PRIOR APPLICATION NUMBER: 60/090695
44	PRIOR FILING DATE: 1998-06-25
45	PRIOR APPLICATION NUMBER: 60/090696
46	PRIOR FILING DATE: 1998-06-25
47	PRIOR APPLICATION NUMBER: 60/090862
48	PRIOR FILING DATE: 1998-06-26
49	PRIOR APPLICATION NUMBER: 60/090863
50	PRIOR FILING DATE: 1998-06-26
51	PRIOR APPLICATION NUMBER: 60/091360
52	PRIOR FILING DATE: 1998-07-01
53	PRIOR APPLICATION NUMBER: 60/091478
54	PRIOR FILING DATE: 1998-07-02
55	PRIOR APPLICATION NUMBER: 60/091544
56	PRIOR FILING DATE: 1998-07-01
57	PRIOR APPLICATION NUMBER: 60/091519
58	PRIOR FILING DATE: 1998-07-02
59	PRIOR APPLICATION NUMBER: 60/091626
60	PRIOR FILING DATE: 1998-07-02
61	PRIOR APPLICATION NUMBER: 60/091633
62	PRIOR FILING DATE: 1998-07-02
63	PRIOR APPLICATION NUMBER: 60/091978
64	PRIOR FILING DATE: 1998-07-07
65	PRIOR APPLICATION NUMBER: 60/091982
66	PRIOR FILING DATE: 1998-07-07
67	PRIOR APPLICATION NUMBER: 60/092182
68	PRIOR FILING DATE: 1998-07-09

QY	1	CTCCACGGTGTCCAGGCCCCAGAAATCGCGCTTCTGGTCTCTGTATATGGGGTTCGCTGCTG	60
Db	1	CTCCACGGTGTCCAGGCCCCAGAAATCGCGCTTCTGGTCTCTGTATATGGGGTTCGCTGCTG	60
QY	61	CTCCACGGTTATGAAGCCCTGGAGGGCCACAGAGGAATCAGCGGGTTCGAAGGGGACACT	120
Db	61	CTCCACGGTTATGAAGCCCTGGAGGGCCACAGAGGAATCAGCGGGTTCGAAGGGGACACT	120
QY	121	GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACACCGGAAGTACTCTGGTGCAGG	180
Db	121	GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACACCGGAAGTACTCTGGTGCAGG	180
QY	181	AAGGGTGGGATCTCTTCTCTCGGTGCTCTGGGACCAATCTATGCAGAGGAAGAGCCAG	240
Db	181	AAGGGTGGGATCTCTTCTCTCGGTGCTCTGGGACCAATCTATGCAGAGGAAGAGCCAG	240
QY	241	GAGACAATGAAGGACGGGTGCATCCGTGACAGCCGACAGAGCTCTCGCTCATTTGTG	300
Db	241	GAGACAATGAAGGACGGGTGCATCCGTGACAGCCGACAGAGCTCTCGCTCATTTGTG	300
QY	301	ACCCCTGTGGAACTCTCACCCCTGCAAGACGCTGGGGAGTACTTGGTGTGGGGTCGAAAACGG	360
Db	301	ACCCCTGTGGAACTCTCACCCCTGCAAGACGCTGGGGAGTACTTGGTGTGGGGTCGAAAACGG	360
QY	361	GGCCCCGATGAGTCTTTTACTGATCTCTCTTTCTTTTCCAGAACCTCTCTCTCTCTCC	420
Db	361	GGCCCCGATGAGTCTTTTACTGATCTCTCTTTCTTTTCCAGAACCTCTCTCTCTCTCC	420
QY	421	TCCCTTTCTCCACCTTCGAGCCTCTGGCTTACACACGCTGACGCCAGCCCAAGGCT	480
Db	421	TCCCTTTCTCCACCTTCGAGCCTCTGGCTTACACACGCTGACGCCAGCCCAAGGCT	480
QY	481	CAGCAAAACCCAGCCCCCAGGATTTGACTTCTCTGGGCTCTACCCGGCAGGCCACACAGCC	540
Db	481	CAGCAAAACCCAGCCCCCAGGATTTGACTTCTCTGGGCTCTACCCGGCAGGCCACACAGCC	540
QY	541	AAGCAGGGGAAGACAGGGGTGAGGCCCTTCCATTTGCCAGGGAATTGCCAGTTCAGGGCAC	600
Db	541	AAGCAGGGGAAGACAGGGGTGAGGCCCTTCCATTTGCCAGGGAATTGCCAGTTCAGGGCAC	600
QY	601	GAAGGACTTCTCAGTACACAGGAACCTCTCTCACCAGGACCTCTCTCTCTGACGGG	660
Db	601	GAAGGACTTCTCAGTACACAGGAACCTCTCTCACCAGGACCTCTCTCTCTGACGGG	660
QY	661	AGCTCCCGCCCCCATCTGAGCTGGACTCCACCTCAGCAGAGGACACCACTCCAGCTCTC	720
Db	661	AGCTCCCGCCCCCATCTGAGCTGGACTCCACCTCAGCAGAGGACACCACTCCAGCTCTC	720
QY	721	AGCAGTGGCAGCTTAAGCCCAAGGGTGCATATCCGATGTTCGCGATATCTGGCCCCCAGTC	780
Db	721	AGCAGTGGCAGCTTAAGCCCAAGGGTGCATATCCGATGTTCGCGATATCTGGCCCCCAGTC	780
QY	781	CTGGTGTCTGAGCCTTCTGTACGCGCAGGCTGTATCGCCTTCTGACGCCACCTGCTC	840
Db	781	CTGGTGTCTGAGCCTTCTGTACGCGCAGGCTGTATCGCCTTCTGACGCCACCTGCTC	840
QY	841	CTGTGGAGAAAGGAAGCTCAACAGGCCACCGAGACACAGAGGAACGAGAAGTTCTTGCTC	900
Db	841	CTGTGGAGAAAGGAAGCTCAACAGGCCACCGAGACACAGAGGAACGAGAAGTTCTTGCTC	900
QY	901	TCACGCTTGATCTCGGAGGAAAAGAAAGCCCTTCTCCAGGCCCTGAGGGGACGTGATC	960
Db	901	TCACGCTTGATCTCGGAGGAAAAGAAAGCCCTTCTCCAGGCCCTGAGGGGACGTGATC	960
QY	961	TCGATGCTTCCCTCCACACATCTGAGGAGAGCTTGGGCTTCTCGAAGTTTGTCTCAGCG	1020
Db	961	TCGATGCTTCCCTCCACACATCTGAGGAGAGCTTGGGCTTCTCGAAGTTTGTCTCAGCG	1020
QY	1021	TAGGGCAGGAGGCCCTCTCTGGCCAGGCCACGACGTGAAGCAGTATGGCTGGCTGATCAGC	1080
Db	1021	TAGGGCAGGAGGCCCTCTCTGGCCAGGCCACGACGTGAAGCAGTATGGCTGGCTGATCAGC	1080
QY	1081	ACCGAATTTCCGAAAGCTTTTCCACTCAGCCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT	1140

1081 ACCGATTCGCGAAGCTTTCCACCTCAGCCTCAGAGTCCAGCTGCCCGGAGCTCAGGGCT 1140
1141 CTCCCAACCTCCCGAGCTCTCTCTTGATGATGTTCCAGGCTGACCTAGAGAGGTTTGTC 1200
1141 CTCCCAACCTCCCGAGCTCTCTCTTGATGATGTTCCAGGCTGACCTAGAGAGGTTTGTC 1200
1201 AGCCCTGGAGCCAGAGCGGTGGCTTGCTCTCCGCTGGAGAGCTGGGAGCATCCCTGAT 1260
1201 AGCCCTGGAGCCAGAGCGGTGGCTTGCTCTCCGCTGGAGAGCTGGGAGCATCCCTGAT 1260
1261 AGGTTTCACTCCCTGGGACAGTACCAAGGCTGCTGACCCCTCAGCAGGCGCCAGACAAGGCT 1320
1261 AGGTTTCACTCCCTGGGACAGTACCAAGGCTGCTGACCCCTCAGCAGGCGCCAGACAAGGCT 1320
1321 CAGTGAATCTGGTCTGAGTTTCAATCTGCCAGGAACTCTCTGGGCTCATGCCAGGCTGTCG 1380
1321 CAGTGAATCTGGTCTGAGTTTCAATCTGCCAGGAACTCTCTGGGCTCATGCCAGGCTGTCG 1380
1381 GACCTGCTCTCTCCAGCTCCAGACCCACCTTGCTCTCCCTGCGGCTCTCAGAC 1440
1381 GACCTGCTCTCTCCAGCTCCAGACCCACCTTGCTCTCCCTGCGGCTCTCAGAC 1440
1441 TTAGTCCCAAGGCTCTCTGATCAGCTGGTGGTGAAGAGGAGCATGCTGGGGTGAGACTG 1500
1441 TTAGTCCCAAGGCTCTCTGATCAGCTGGTGGTGGTGAAGAGGAGCATGCTGGGGTGAGACTG 1500
1501 GGATTTCTGGCTCTCTTTGAACCACTCCATCCAGGCTTTCCAGGAGCCCTTGTAAGAACG 1560
1501 GGATTTCTGGCTCTCTTTGAACCACTCCATCCAGGCTTTCCAGGAGCCCTTGTAAGAACG 1560
1561 TGATTTCTGGCCCAACAAGACCCACCAAAACCATCTCTGGGCTTGCTGGGCTGAGACTG 1620
1561 TGATTTCTGGCCCAACAAGACCCACCAAAACCATCTCTGGGCTTGCTGGGCTGAGACTG 1620
1621 ATTCTAACATGCGGCTGAGTCTGCGACTTGAGTTGAGGGCCAGTGGGCTTGATGAAC 1680
1621 ATTCTAACATGCGGCTGAGTCTGCGACTTGAGTTGAGGGCCAGTGGGCTTGATGAAC 1680
1681 GCTTCAACCTCTCAGCTTAGAGTCTGATTTGGGCTGTCAGCTCTCCACCTGCCCAAT 1740
1681 GCTTCAACCTCTCAGCTTAGAGTCTGATTTGGGCTGTCAGCTCTCCACCTGCCCAAT 1740
1741 AGATCTGCTCTGCTGCGACACAGATCCACGTTGGGACTCCCTGAGGCTCTGAAGTC 1800
1741 AGATCTGCTCTGCTGCGACACAGATCCACGTTGGGACTCCCTGAGGCTCTGAAGTC 1800
1801 CAGGCTTTGGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTG 1860
1801 CAGGCTTTGGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTG 1860
1861 TTGCTTTTNCATTTGGCTCTCCCTGNCCTGCTCTCTGCTTTGGAAAAATGATGAA 1920
1861 TTGCTTTTNCATTTGGCTCTCCCTGNCCTGCTCTCTGCTTTGGAAAAATGATGAA 1920
1921 GAAAACTTTGGCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1980
1921 GAAAACTTTGGCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1980
1981 GAGAGAAAGTAGAAAAACAGAGTGCAGCTGAGTGTCTTAAACAGAGGAGTAGGAACA 2040
1981 GAGAGAAAGTAGAAAAACAGAGTGCAGCTGAGTGTCTTAAACAGAGGAGTAGGAACA 2040
2041 GGGCGGATACCTGAGGTGACTCCGAGTCCAGCTCCGAGTCCGAGTCCGAGTCCGAGTCCGAGTCC 2100
2041 GGGCGGATACCTGAGGTGACTCCGAGTCCAGCTCCGAGTCCGAGTCCGAGTCCGAGTCCGAGTCC 2100
2101 GTAAAGTAGCAACTACTATTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCT 2160
2101 GTAAAGTAGCAACTACTATTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCT 2160
2161 ATCTGCTGCTGCCCGAGCTGAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGC 2220

2161 ATCTGCTGCTGCCCGAGCTGAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGC 2220
2221 GTTCAAGTGAATCTTCTGCTCAGCTCAGCTCCGAGTAGCTGGGATTAACAGCAGCAGCAGCAGC 2280
2221 GTTCAAGTGAATCTTCTGCTCAGCTCAGCTCCGAGTAGCTGGGATTAACAGCAGCAGCAGCAGC 2280
2281 ACACCTGGCTTAATTTTGTACTTTTGTAGTAGAGATGGGTTTCCACCATGTTGGCCAGGCTG 2340
2281 ACACCTGGCTTAATTTTGTACTTTTGTAGTAGAGATGGGTTTCCACCATGTTGGCCAGGCTG 2340
2341 GTCTTCAACTCCGAGCTCAATGAGCTCTCTCTCAGTCTCCCAATGCGGGGATTA 2400
2341 GTCTTGAATCTCCGAGCTCAATGAGCTCTCTCTCAGTCTCCCAATGCGGGGATTA 2400
2401 CAGGCAATGAGCTCTGCTGCTGCT 2460
2401 CAGGCAATGAGCTCTGCTGCTGCT 2460
2461 AGTATCAAAACCTTGGAAAGATGGAGGAGAAAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 2520
2461 AGTATCAAAACCTTGGAAAGATGGAGGAGAAAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 2520
2521 TAGTCTCAGCAGAGCTATCATTTATTTTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 2580
2521 TAGTCTCAGCAGAGCTATCATTTATTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 2580
2581 TTCAATAATTTGCGGCTGTTCTTTTACAGAGCAATATTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 2640
2581 TTCAATAATTTGCGGCTGTTCTTTTACAGAGCAATATTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 2640
2641 TCTGCTTTTCCACCTTATCTGTTCCATCATCTTATTCAGCACTTCTCTGTTGTTTAC 2700
2641 TCTGCTTTTCCACCTTATCTGTTCCATCATCTTATTCAGCACTTCTCTGTTGTTTAC 2700
2701 GACCTTTTATAATAAATAATGTTTCATCAGCTGCATATAAAAAA 2749
2701 GACCTTTTATAATAAATAATGTTTCATCAGCTGCATATAAAAAA 2749

RESULT 4
US-09-989-727-516
; Sequence 516, Application US/09989727
; Patent No. US20020072497A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC65
; CURRENT APPLICATION NUMBER: US/09/989, 727
; CURRENT FILING DATE: 2001-11-19

1 PRIOR APPLICATION NUMBER: 60/049787
2 PRIOR FILING DATE: 1997-06-16
3 PRIOR APPLICATION NUMBER: 60/062250
4 PRIOR FILING DATE: 1997-10-17
5 PRIOR APPLICATION NUMBER: 60/065186
6 PRIOR FILING DATE: 1997-11-12
7 PRIOR APPLICATION NUMBER: 60/065311
8 PRIOR FILING DATE: 1997-11-13
9 PRIOR APPLICATION NUMBER: 60/066770
10 PRIOR FILING DATE: 1997-11-24
11 PRIOR APPLICATION NUMBER: 60/075945
12 PRIOR FILING DATE: 1998-02-25
13 PRIOR APPLICATION NUMBER: 60/078910
14 PRIOR FILING DATE: 1998-03-20
15 PRIOR APPLICATION NUMBER: 60/083322
16 PRIOR FILING DATE: 1998-04-28
17 PRIOR APPLICATION NUMBER: 60/084600
18 PRIOR FILING DATE: 1998-05-07
19 PRIOR APPLICATION NUMBER: 60/087106
20 PRIOR FILING DATE: 1998-05-28
21 PRIOR APPLICATION NUMBER: 60/087607
22 PRIOR FILING DATE: 1998-06-02
23 PRIOR APPLICATION NUMBER: 60/087609
24 PRIOR FILING DATE: 1998-06-02
25 PRIOR APPLICATION NUMBER: 60/087759
26 PRIOR FILING DATE: 1998-06-02
27 PRIOR APPLICATION NUMBER: 60/087827
28 PRIOR FILING DATE: 1998-06-03
29 PRIOR APPLICATION NUMBER: 60/088021
30 PRIOR FILING DATE: 1998-06-04
31 PRIOR APPLICATION NUMBER: 60/088025
32 PRIOR FILING DATE: 1998-06-04
33 PRIOR APPLICATION NUMBER: 60/088026
34 PRIOR FILING DATE: 1998-06-04
35 PRIOR APPLICATION NUMBER: 60/088028
36 PRIOR FILING DATE: 1998-06-04
37 PRIOR APPLICATION NUMBER: 60/088029
38 PRIOR FILING DATE: 1998-06-04
39 PRIOR APPLICATION NUMBER: 60/088030
40 PRIOR FILING DATE: 1998-06-04
41 PRIOR APPLICATION NUMBER: 60/088033
42 PRIOR FILING DATE: 1998-06-04
43 PRIOR APPLICATION NUMBER: 60/088326
44 PRIOR FILING DATE: 1998-06-04
45 PRIOR APPLICATION NUMBER: 60/088167
46 PRIOR FILING DATE: 1998-06-05
47 PRIOR APPLICATION NUMBER: 60/088202
48 PRIOR FILING DATE: 1998-06-05
49 PRIOR APPLICATION NUMBER: 60/088212
50 PRIOR FILING DATE: 1998-06-05
51 PRIOR APPLICATION NUMBER: 60/088217
52 PRIOR FILING DATE: 1998-06-05
53 PRIOR APPLICATION NUMBER: 60/088655
54 PRIOR FILING DATE: 1998-06-09
55 PRIOR APPLICATION NUMBER: 60/088734
56 PRIOR FILING DATE: 1998-06-10
57 PRIOR APPLICATION NUMBER: 60/088738
58 PRIOR FILING DATE: 1998-06-10
59 PRIOR APPLICATION NUMBER: 60/088742
60 PRIOR FILING DATE: 1998-06-10
61 PRIOR APPLICATION NUMBER: 60/088810
62 PRIOR FILING DATE: 1998-06-10
63 PRIOR APPLICATION NUMBER: 60/088824
64 PRIOR FILING DATE: 1998-06-10
65 PRIOR APPLICATION NUMBER: 60/088826
66 PRIOR FILING DATE: 1998-06-10
67 PRIOR APPLICATION NUMBER: 60/088858
68 PRIOR FILING DATE: 1998-06-11
69 PRIOR APPLICATION NUMBER: 60/088861
70 PRIOR FILING DATE: 1998-06-11
71 PRIOR APPLICATION NUMBER: 60/088876
72 PRIOR FILING DATE: 1998-06-11
73 PRIOR APPLICATION NUMBER: 60/089105
74 PRIOR FILING DATE: 1998-06-12
75 PRIOR APPLICATION NUMBER: 60/089440
76 PRIOR FILING DATE: 1998-06-16
77 PRIOR APPLICATION NUMBER: 60/089512
78 PRIOR FILING DATE: 1998-06-16
79 PRIOR APPLICATION NUMBER: 60/089514
80 PRIOR FILING DATE: 1998-06-16
81 PRIOR APPLICATION NUMBER: 60/089532
82 PRIOR FILING DATE: 1998-06-17
83 PRIOR APPLICATION NUMBER: 60/089538
84 PRIOR FILING DATE: 1998-06-17
85 PRIOR APPLICATION NUMBER: 60/089598
86 PRIOR FILING DATE: 1998-06-17
87 PRIOR APPLICATION NUMBER: 60/089599
88 PRIOR FILING DATE: 1998-06-17
89 PRIOR APPLICATION NUMBER: 60/089600
90 PRIOR FILING DATE: 1998-06-17
91 PRIOR APPLICATION NUMBER: 60/089653
92 PRIOR FILING DATE: 1998-06-17
93 PRIOR APPLICATION NUMBER: 60/089801
94 PRIOR FILING DATE: 1998-06-18
95 PRIOR APPLICATION NUMBER: 60/089907
96 PRIOR FILING DATE: 1998-06-18
97 PRIOR APPLICATION NUMBER: 60/089908
98 PRIOR FILING DATE: 1998-06-18
99 PRIOR APPLICATION NUMBER: 60/089947
100 PRIOR FILING DATE: 1998-06-19
101 PRIOR APPLICATION NUMBER: 60/089948
102 PRIOR FILING DATE: 1998-06-19
103 PRIOR APPLICATION NUMBER: 60/089952
104 PRIOR FILING DATE: 1998-06-19
105 PRIOR APPLICATION NUMBER: 60/090246
106 PRIOR FILING DATE: 1998-06-22
107 PRIOR APPLICATION NUMBER: 60/090252
108 PRIOR FILING DATE: 1998-06-22
109 PRIOR APPLICATION NUMBER: 60/090254
110 PRIOR FILING DATE: 1998-06-22
111 PRIOR APPLICATION NUMBER: 60/090349
112 PRIOR FILING DATE: 1998-06-23
113 PRIOR APPLICATION NUMBER: 60/090355
114 PRIOR FILING DATE: 1998-06-23
115 PRIOR APPLICATION NUMBER: 60/090429
116 PRIOR FILING DATE: 1998-06-24
117 PRIOR APPLICATION NUMBER: 60/090431
118 PRIOR FILING DATE: 1998-06-24
119 PRIOR APPLICATION NUMBER: 60/090435
120 PRIOR FILING DATE: 1998-06-24
121 PRIOR APPLICATION NUMBER: 60/090444
122 PRIOR FILING DATE: 1998-06-24
123 PRIOR APPLICATION NUMBER: 60/090445
124 PRIOR FILING DATE: 1998-06-24
125 PRIOR APPLICATION NUMBER: 60/090472
126 PRIOR FILING DATE: 1998-06-24
127 PRIOR APPLICATION NUMBER: 60/090535
128 PRIOR FILING DATE: 1998-06-24
129 PRIOR APPLICATION NUMBER: 60/090540
130 PRIOR FILING DATE: 1998-06-24
131 PRIOR APPLICATION NUMBER: 60/090542
132 PRIOR FILING DATE: 1998-06-24
133 PRIOR APPLICATION NUMBER: 60/090557
134 PRIOR FILING DATE: 1998-06-24
135 PRIOR APPLICATION NUMBER: 60/090676
136 PRIOR FILING DATE: 1998-06-25
137 PRIOR APPLICATION NUMBER: 60/090678
138 PRIOR FILING DATE: 1998-06-25
139 PRIOR APPLICATION NUMBER: 60/090690
140 PRIOR FILING DATE: 1998-06-25
141 PRIOR APPLICATION NUMBER: 60/090694
142 PRIOR FILING DATE: 1998-06-25
143 PRIOR APPLICATION NUMBER: 60/090695
144 PRIOR FILING DATE: 1998-06-25
145 PRIOR APPLICATION NUMBER: 60/090696
146 PRIOR FILING DATE: 1998-06-25

; PRIOR APPLICATION NUMBER: 60/090862		Query Match		99.9%; Score 2747; DB 9; Length 2749;	
; PRIOR FILING DATE: 1998-06-26		Best Local Similarity		100.0%; Pred. No. 0;	
; PRIOR APPLICATION NUMBER: 60/090863		Matches 2749; Conservative		0; Mismatches 0; Indels 0; Gaps 0;	
; PRIOR FILING DATE: 1998-06-26		1		CTCCACGGTTCAGCGCCAGAAATGCGGCTTCTGCTCTGCTCTGCTATGCGGTTGCTGCTG 60	
; PRIOR APPLICATION NUMBER: 60/091360		Db		1 CTCCACGGTTCAGCGCCAGAAATGCGGCTTCTGCTCTGCTCTGCTATGCGGTTGCTGCTG 60	
; PRIOR FILING DATE: 1998-07-01		Qy		61 CTCCACGGTTCAGCGCCAGAAATGCGGCTTCTGCTCTGCTCTGCTATGCGGTTGCTGCTG 120	
; PRIOR APPLICATION NUMBER: 60/091478		Db		61 CTCCACGGTTCAGCGCCAGAAATGCGGCTTCTGCTCTGCTCTGCTATGCGGTTGCTGCTG 120	
; PRIOR FILING DATE: 1998-07-02		Qy		121 GTGTCCCTGCACTGACCTACAGGGAAGAGCTGAGGGAACACACCGGAAGTACTGCTGAGG 180	
; PRIOR APPLICATION NUMBER: 60/091544		Db		121 GTGTCCCTGCACTGACCTACAGGGAAGAGCTGAGGGAACACACCGGAAGTACTGCTGAGG 180	
; PRIOR FILING DATE: 1998-07-01		Qy		181 AAGGTTGGGATCTCTTCTCTGCTGCTGCTGCAACATCTATGCAAGAAGAAGGCGAG 240	
; PRIOR APPLICATION NUMBER: 60/091519		Db		181 AAGGTTGGGATCTCTTCTCTGCTGCTGCTGCAACATCTATGCAAGAAGAAGGCGAG 240	
; PRIOR FILING DATE: 1998-07-02		Qy		241 GAGCAATGAAGGCGAGGCTGCTCATCCGTCAGACGCGCGAGGAGCTCTCGCTCATTTG 300	
; PRIOR APPLICATION NUMBER: 60/091626		Db		241 GAGCAATGAAGGCGAGGCTGCTCATCCGTCAGACGCGCGAGGAGCTCTCGCTCATTTG 300	
; PRIOR FILING DATE: 1998-07-02		Qy		301 ACCCTGTGGAACCTCACCTGCAAGAGCTGCGGAGTACTGCTGCTGCGGTTGCAAAAACGG 360	
; PRIOR APPLICATION NUMBER: 60/091633		Db		301 ACCCTGTGGAACCTCACCTGCAAGAGCTGCGGAGTACTGCTGCTGCGGTTGCAAAAACGG 360	
; PRIOR FILING DATE: 1998-07-02		Qy		361 GGCCCGATGAGTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420	
; PRIOR APPLICATION NUMBER: 60/09178		Db		361 GGCCCGATGAGTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420	
; PRIOR FILING DATE: 1998-07-01		Qy		421 TCCCTTTCTCCACCTTCCAGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 480	
; PRIOR APPLICATION NUMBER: 60/091519		Db		421 TCCCTTTCTCCACCTTCCAGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 480	
; PRIOR FILING DATE: 1998-07-02		Qy		481 CAGGAAACCCAGGCCCCAGGATTTGACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 540	
; PRIOR APPLICATION NUMBER: 60/091626		Db		481 CAGGAAACCCAGGCCCCAGGATTTGACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 540	
; PRIOR FILING DATE: 1998-07-02		Qy		541 AAGCAGGGAAGACAGGGGCTGAGGCCCCCTCCATTTGCGGAGCTTCCAGTACGGGAC 600	
; PRIOR APPLICATION NUMBER: 60/091633		Db		541 AAGCAGGGAAGACAGGGGCTGAGGCCCCCTCCATTTGCGGAGCTTCCAGTACGGGAC 600	
; PRIOR FILING DATE: 1998-07-02		Qy		601 GAAAGGACTTCTCAGTACACAGGAACCTCTCTCACCCAGGACCTCTCTCTCTCTCTCTCTCTCT 660	
; PRIOR APPLICATION NUMBER: 60/091978		Db		601 GAAAGGACTTCTCAGTACACAGGAACCTCTCTCACCCAGGACCTCTCTCTCTCTCTCTCTCTCT 660	
; PRIOR FILING DATE: 1998-07-07		Qy		661 AGTTCGCGCCCCCATGACGTGGACTTCCACTCTAGCAGAGGACACACAGTCCAGTCTC 720	
; PRIOR APPLICATION NUMBER: 60/092182		Db		661 AGTTCGCGCCCCCATGACGTGGACTTCCACTCTAGCAGAGGACACACAGTCCAGTCTC 720	
; PRIOR FILING DATE: 1998-07-09		Qy		661 AGTTCGCGCCCCCATGACGTGGACTTCCACTCTAGCAGAGGACACACAGTCCAGTCTC 720	
; PRIOR APPLICATION NUMBER: 60/090862		Db		661 AGTTCGCGCCCCCATGACGTGGACTTCCACTCTAGCAGAGGACACACAGTCCAGTCTC 720	
; PRIOR FILING DATE: 1998-06-26		Qy		721 AGCAGTGGCAGCTCTAAGCCACAGGGTGTCCATCCCGATGGTCCGATATCTGCGCCAGTCTC 780	
; PRIOR APPLICATION NUMBER: 60/091360		Db		721 AGCAGTGGCAGCTCTAAGCCACAGGGTGTCCATCCCGATGGTCCGATATCTGCGCCAGTCTC 780	
; PRIOR FILING DATE: 1998-07-01		Qy		781 CTGGTGTCTGCTGAGCTTCTGCTCAGCGGAGGGCTGATCCGCTTCTGCTGAGGACCTGCTC 840	
; PRIOR APPLICATION NUMBER: 60/091478		Db		781 CTGGTGTCTGCTGAGCTTCTGCTCAGCGGAGGGCTGATCCGCTTCTGCTGAGGACCTGCTC 840	
; PRIOR FILING DATE: 1998-07-02		Qy		841 CTGTGAGAAAGGAAGCTCAACAGGCCACGAGGACACAGAGGAACAGAAAGTTCTGGCTC 900	
; PRIOR APPLICATION NUMBER: 60/091544		Db		841 CTGTGAGAAAGGAAGCTCAACAGGCCACGAGGACACAGAGGAACAGAAAGTTCTGGCTC 900	
; PRIOR FILING DATE: 1998-07-01		Qy		901 TCACGCTTGACTCGCGAGGAAAGAGGCCCTTCCAGGCCCTTCCAGGCCCTGAGGGGAGCTGATC 960	
; PRIOR APPLICATION NUMBER: 60/091626		Db		901 TCACGCTTGACTCGCGAGGAAAGAGGCCCTTCCAGGCCCTTCCAGGCCCTGAGGGGAGCTGATC 960	
; PRIOR FILING DATE: 1998-07-02		Qy		961 TCAGTGTCTCCCTTCACACATCTGAGGAGAGCTGGGCTTCTGCAAGTTTGTCTCAGCG 1020	
; PRIOR APPLICATION NUMBER: 60/09178		Db		961 TCAGTGTCTCCCTTCACACATCTGAGGAGAGCTGGGCTTCTGCAAGTTTGTCTCAGCG 1020	
; PRIOR FILING DATE: 1998-07-07		Qy		1021 TAGGGCAGGAGGCGCTCTGCGCCAGGCGCAGCTGAGAGCAGTATGGCTGGCTGGATCAGC 1080	
; PRIOR APPLICATION NUMBER: 60/092182		Db		1021 TAGGGCAGGAGGCGCTCTGCGCCAGGCGCAGCTGAGAGCAGTATGGCTGGCTGGATCAGC 1080	
; PRIOR FILING DATE: 1998-07-09		Qy		1081 ACCGATTTCCGAAAGCTTTTCCACTCAGCTCAGCTCAGAGTCCAGCTGCGCGAGCTCCAGGGCT 1140	
; PRIOR APPLICATION NUMBER: 60/090862		Db		1081 ACCGATTTCCGAAAGCTTTTCCACTCAGCTCAGCTCAGAGTCCAGCTGCGCGAGCTCCAGGGCT 1140	
; PRIOR FILING DATE: 1998-06-26		Qy		1141 CTCCCAACCTTCCCAAGGCTCTCTCTTGTGATGTTTCAGCTGACCTTAGAAGGCTTTGTC 1200	
; PRIOR APPLICATION NUMBER: 60/091360		Db		1141 CTCCCAACCTTCCCAAGGCTCTCTCTTGTGATGTTTCAGCTGACCTTAGAAGGCTTTGTC 1200	
; PRIOR FILING DATE: 1998-07-01		Qy		1201 AGCCCTGGAGCCAGAGCGGTGCTTCTTCCGCTGGAGCTGGGACATCCCTGAT 1260	
; PRIOR APPLICATION NUMBER: 60/091478		Db		1201 AGCCCTGGAGCCAGAGCGGTGCTTCTTCCGCTGGAGCTGGGACATCCCTGAT 1260	
; PRIOR FILING DATE: 1998-07-02		Qy		1261 AGTTTACATCTCCCTGGGCGAGGTACAGGCTGTGCTGCTTCCGCTGGAGCTGGGACATCCCTGAT 1320	
; PRIOR APPLICATION NUMBER: 60/091544		Db		1261 AGTTTACATCTCCCTGGGCGAGGTACAGGCTGTGCTGCTTCCGCTGGAGCTGGGACATCCCTGAT 1320	
; PRIOR FILING DATE: 1998-07-01		Qy		1321 CAGTGAATCTGCTGAGTTTCAATCTGCAAGAACTCTCTGGGCTCATGCGGAGTGTG 1380	
; PRIOR APPLICATION NUMBER: 60/091626		Db		1321 CAGTGAATCTGCTGAGTTTCAATCTGCAAGAACTCTCTGGGCTCATGCGGAGTGTG 1380	
; PRIOR FILING DATE: 1998-07-02		Qy		1381 GACCTGCTTCTTCCCTCCAGACCCCACTTCTTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT 1440	
; PRIOR APPLICATION NUMBER: 60/09178		Db		1381 GACCTGCTTCTTCCCTCCAGACCCCACTTCTTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT 1440	
; PRIOR FILING DATE: 1998-07-07		Qy		1441 TTAGTCCCAAGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500	
; PRIOR APPLICATION NUMBER: 60/092182		Db		1441 TTAGTCCCAAGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500	
; PRIOR FILING DATE: 1998-07-09		Qy		1501 GGAATCTGGCTTCTTGTGAAACCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1560	
; PRIOR APPLICATION NUMBER: 60/090862		Db		1501 GGAATCTGGCTTCTTGTGAAACCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1560	
; PRIOR FILING DATE: 1998-06-26		Qy		1561 TGAATCTGGGCCCCCAGACCCCACTTCTGGGCTTGGTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1620	
; PRIOR APPLICATION NUMBER: 60/091360		Db		1561 TGAATCTGGGCCCCCAGACCCCACTTCTGGGCTTGGTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1620	
; PRIOR FILING DATE: 1998-07-01		Qy		1621 ATTCTAACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1680	
; PRIOR APPLICATION NUMBER: 60/091478		Db		1621 ATTCTAACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1680	
; PRIOR FILING DATE: 1998-07-02		Qy		1681 GCTCACAACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1740	
; PRIOR APPLICATION NUMBER: 60/091544		Db		1681 GCTCACAACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1740	
; PRIOR FILING DATE: 1998-07-01		Qy		1741 AGATCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1800	
; PRIOR APPLICATION NUMBER: 60/091626		Db		1741 AGATCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1800	

Qy	1801	CAGSCCTTGGTCAGGTGACATTTGCAGGATAAGCCAGGACGGGACAGAAAGTGG	1860
Db	1801		1860
		CAGSCCTTGGTCAGGTGACATTTGCAGGATAAGCCAGGACGGGACAGAAAGTGG	
Qy	1861	TTGGCTTTNCCATTTGGCCCTCCCTGGNCCATGCCTTCTTGCCCTTTGGAAAAAATGATGAA	1920
Db	1861		1920
		TTGGCTTTNCCATTTGGCCCTCCCTGGNCCATGCCTTCTTGCCCTTTGGAAAAAATGATGAA	
Qy	1921	GAAAAACCTTGGCTCCTTCTTGTCGAAAGGGTTACTTGCCTATATGGTTCTCTGTGGCTA	1980
Db	1921		1980
		GAAAAACCTTGGCTCCTTCTTGTCGAAAGGGTTACTTGCCTATATGGTTCTCTGTGGCTA	
Qy	1981	GAGAGAAAAAGTAGAAAAACAGAGGTGCACTAGGTGTCTAAACACAGAGGAGAGTAGGAACA	2040
Db	1981		2040
		GAGAGAAAAAGTAGAAAAACAGAGGTGCACTAGGTGTCTAAACACAGAGGAGAGTAGGAACA	
Qy	2041	GGGCGGATACCTGAAAGTGATCTCCGAGTCCAGCCCCCTGGAGAAAGGGTCCGGGGTGGTG	2100
Db	2041		2100
		GGGCGGATACCTGAAAGTGATCTCCGAGTCCAGCCCCCTGGAGAAAGGGTCCGGGGTGGTG	
Qy	2101	GTAAGTAGCACAACTACTATTTTTTTCTTTTTTCCATTATTAATGTTTTTTAAGACAGA	2160
Db	2101		2160
		GTAAGTAGCACAACTACTATTTTTTTCTTTTTTCCATTATTAATGTTTTTTAAGACAGA	
Qy	2161	ATCTCGTGCTGCTGCCACGAGCTGGAGTGCACTGGGACGATCTGCAAACTCCGCCTCTCTGG	2220
Db	2161		2220
		ATCTCGTGCTGCTGCCACGAGCTGGAGTGCACTGGGACGATCTGCAAACTCCGCCTCTCTGG	
Qy	2221	GTTCAAGTGATTTCTTCTGCGCTCAGCCTCCCGAGTAGCTGGGATTTACAGGCACGACCCACC	2280
Db	2221		2280
		GTTCAAGTGATTTCTTCTGCGCTCAGCCTCCCGAGTAGCTGGGATTTACAGGCACGACCCACC	
Qy	2281	ACACCTGGCTAAATTTTGTACTTTTAGTAGAGATGGGGTTTACACATGTTGGCCAGGCTG	2340
Db	2281		2340
		ACACCTGGCTAAATTTTGTACTTTTAGTAGAGATGGGGTTTACACATGTTGGCCAGGCTG	
Qy	2341	GTCTTGAACTCCTCGACCTCAAAAGAGCGCTCCTGCTTCAGTCTCCCAAAATGCCGGGATTA	2400
Db	2341		2400
		GTCTTGAACTCCTCGACCTCAAAAGAGCGCTCCTGCTTCAGTCTCCCAAAATGCCGGGATTA	
Qy	2401	CAGGCATGAGCCACTGTGTCTGGCCCTATTTTCTTTAAAAAGTGAATTAAGAGTTGTTC	2460
Db	2401		2460
		CAGGCATGAGCCACTGTGTCTGGCCCTATTTTCTTTAAAAAGTGAATTAAGAGTTGTTC	
Qy	2461	AGTATGCAAAACTTTGGAAAGATGGAGAGAAAAAGAAAAAGAAAAAATGTCAACCA	2520
Db	2461		2520
		AGTATGCAAAACTTTGGAAAGATGGAGAGAAAAAGAAAAAGAAAAAATGTCAACCA	
Qy	2521	TAGTCTCACCGAGACATATCATTAATTTGGTTTGTGTACTTCTCTTCCACTCTTTTCTTC	2580
Db	2521		2580
		TAGTCTCACCGAGACATATCATTAATTTGGTTTGTGTACTTCTCTTCCACTCTTTTCTTC	
Qy	2581	TTACATAAATTTGGCGGTGTTCTTTTTCACAGAGCAATTAATCTTGTAATACAACTTTGTA	2640
Db	2581		2640
		TTACATAAATTTGGCGGTGTTCTTTTTCACAGAGCAATTAATCTTGTAATACAACTTTGTA	
Qy	2641	TCCTGCGCTTTTCCACCTTATCGTTTCCATCACTTTTATTTCCAGCACTTCTCTGTGTTTTACA	2700
Db	2641		2700
		TCCTGCGCTTTTCCACCTTATCGTTTCCATCACTTTTATTTCCAGCACTTCTCTGTGTTTTACA	
Qy	2701	GACCTTTTTTATAAATAAAATGTTTCATCAGCTGCAATAAAAAA	2749
Db	2701		2749
		GACCTTTTTTATAAATAAAATGTTTCATCAGCTGCAATAAAAAA	

```

RESULT 5
US-09-989-731-516
; Sequence 516, Application US/09989731
; Patent No. US20020103125A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.

```

;; PRIOR APPLICATION NUMBER: 60/088202
;; PRIOR FILING DATE: 1998-06-05
;; PRIOR APPLICATION NUMBER: 60/088212
;; PRIOR FILING DATE: 1998-06-05
;; PRIOR APPLICATION NUMBER: 60/088217
;; PRIOR FILING DATE: 1998-06-05
;; PRIOR APPLICATION NUMBER: 60/088655
;; PRIOR FILING DATE: 1998-06-09
;; PRIOR APPLICATION NUMBER: 60/088734
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088738
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088742
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088810
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088824
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088826
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088858
;; PRIOR FILING DATE: 1998-06-11
;; PRIOR APPLICATION NUMBER: 60/088861
;; PRIOR FILING DATE: 1998-06-11
;; PRIOR APPLICATION NUMBER: 60/088876
;; PRIOR FILING DATE: 1998-06-11
;; PRIOR APPLICATION NUMBER: 60/089105
;; PRIOR FILING DATE: 1998-06-12
;; PRIOR APPLICATION NUMBER: 60/089440
;; PRIOR FILING DATE: 1998-06-16
;; PRIOR APPLICATION NUMBER: 60/089512
;; PRIOR FILING DATE: 1998-06-16
;; PRIOR APPLICATION NUMBER: 60/089514
;; PRIOR FILING DATE: 1998-06-16
;; PRIOR APPLICATION NUMBER: 60/089532
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089538
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089598
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089599
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089600
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089653
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089801
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089907
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089908
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089947
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/089948
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/089952
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/090246
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090252
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090254
;; PRIOR FILING DATE: 1998-06-22
;; PRIOR APPLICATION NUMBER: 60/090349
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090355
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090429
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090431
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090435

;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090444
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090445
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090472
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090535
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090540
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090542
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090557
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090676
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090678
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090690
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090694
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090695
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090696
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090862
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/090863
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091778
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 99.9%; Score 2747; DB 9; Length 2749;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCCACGGTGTCCAGCGCCAGCAATGCGGCTTCTGGTCTGCTATGGGGTTGCTCTG 60

Db 1 CTCCACGGTGTCCAGCGCCAGCAATGCGGCTTCTGGTCTGCTATGGGGTTGCTCTG 60

QY 61 CTCCACGGTGTATGAAGCCCTGGAGGCCAGAGGAATCAGCGGTTCCGAAGGGACACT 120

Db 61 CTCCACGGTGTATGAAGCCCTGGAGGCCAGAGGAATCAGCGGTTCCGAAGGGACACT 120

QY 121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTCAGGAGCACCCAGGAAGTACTGGTGAGG 180

Db 121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTCAGGAGCACCCAGGAAGTACTGGTGAGG 180

QY 181 AAGGGTGGGATCCTTCTCTCTGCTCTGCAATCTATGCAGGAAGAGGCGAG 240

Db 181 AAGGGTGGGATCCTTCTCTCTGCTCTGCAATCTATGCAGGAAGAGGCGAG 240

QY 241 GAGACAAATGAAGGGCAGGGTGTCTCATCCGTGACAGCGCCAGAGCTCTCGCTCATTTGTG 300

Db 241 GAGACAAATGAAGGGCAGGGTGTCTCATCCGTGACAGCGCCAGAGCTCTCGCTCATTTGTG 300

301 ACCTGTGGAACTCACCTGCAAGACGCTGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
DB |||||
301 ACCTGTGGAACTCACCTGCAAGACGCTGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
DB |||||
361 GGCCCGGATGAGTCTTACTGATCTCTCTGTTCTGTTCCAGGACCCCTGCTCTCCC 420
DB |||||
361 GGCCCGGATGAGTCTTACTGATCTCTCTGTTCTGTTCCAGGACCCCTGCTCTCCC 420
DB |||||
421 TCCCTTCTCCACCTTCCAGCCTCTGGCTTACACAGCCCTGAGGCCCAAGAAAGCT 480
DB |||||
421 TCCCTTCTCCACCTTCCAGCCTCTGGCTTACACAGCCCTGAGGCCCAAGAAAGCT 480
DB |||||
481 CAGCAAAACCCAGCCCCAGGATTTGACTTCTCTGGGCTCTACCCGGCAGGCCACACAGCC 540
DB |||||
481 CAGCAAAACCCAGCCCCAGGATTTGACTTCTCTGGGCTCTACCCGGCAGGCCACACAGCC 540
DB |||||
541 AAGCAGGGGAAGACAGGGGCTGAGGCCCTTCCATTTGCCAGGACTTCCCAGTAGGGGCAC 600
DB |||||
541 AAGCAGGGGAAGACAGGGGCTGAGGGCTGAGGCCCTTCCATTTGCCAGGACTTCCCAGTAGGGGCAC 600
DB |||||
601 GAAAGGACTTCTCAGTACACAGAACTCTCTCTACCCAGGACCTCTCTCTCTGAGGG 660
DB |||||
601 GAAAGGACTTCTCAGTACACAGAACTCTCTCTCTACCCAGGACCTCTCTCTCTGAGGG 660
DB |||||
661 AGCTCCCGCCCCCAGTGCAGCTGGACTCCACCTCAGCAGAGACACACAGTCCAGTCTC 720
DB |||||
661 AGCTCCCGCCCCCAGTGCAGCTGGACTCCACCTCAGCAGAGACACACAGTCCAGTCTC 720
DB |||||
721 AGCAGTGGCAGCTTAAGCCACAGGGTGTCCATCCGATGTCGCGATCTAGTGGCCCCAGTC 780
DB |||||
721 AGCAGTGGCAGCTTAAGCCACAGGGTGTCCATCCGATGTCGCGATCTAGTGGCCCCAGTC 780
DB |||||
781 CTGGTGTCTGAGCCTTCTGTAGCGCGAGGCTGTATCGCCTTCTGACGACACCTGCTC 840
DB |||||
781 CTGGTGTCTGAGCCTTCTGTAGCGCGAGGCTGTATCGCCTTCTGACGACACCTGCTC 840
DB |||||
841 CTGTGAGAAAGGAGCTCAACAGGCCACGAGACACAGAGGAACGAGAAAGTTCTGGCTC 900
DB |||||
841 CTGTGAGAAAGGAGCTCAACAGGCCACGAGACACAGAGGAACGAGAAAGTTCTGGCTC 900
DB |||||
901 TCACGCTTGACTCGGAGGAAAGAGCCCTTCCAGGCCCTCGAGGGGACGTGATC 960
DB |||||
901 TCACGCTTGACTCGGAGGAAAGAGAGCCCTTCCAGGCCCTCGAGGGGACGTGATC 960
DB |||||
961 TCAGTGCCTCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
DB |||||
961 TCAGTGCCTCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
DB |||||
1021 TAGGGCAGGAGGCCCTCTGGCCAGGCCACGAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080
DB |||||
1021 TAGGGCAGGAGGCCCTCTGGCCAGGCCACGAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080
DB |||||
1081 ACCGATTTCCGAAAGCTTTCCACCTCAGCCTCAGAGTCCAGCTGCCGGACCTCAGGGCT 1140
DB |||||
1081 ACCGATTTCCGAAAGCTTTCCACCTCAGCCTCAGAGTCCAGCTGCCGGACCTCAGGGCT 1140
DB |||||
1141 CTCCCAACCTCCCGAGGCTCTCTCTTGAATGTTCCAGCCTGACCTGAGAGGTTTGTTC 1200
DB |||||
1141 CTCCCAACCTCCCGAGGCTCTCTCTTGAATGTTCCAGCCTGACCTGAGAGGCTTGTTC 1200
DB |||||
1201 AGCCCTGGAGCCAGAGCGGTGGCTTGTCTTCCGGCTGGAGCTGGGACATCCCTGAT 1260
DB |||||
1201 AGCCCTGGAGCCAGAGCGGTGGCTTGTCTTCCGGCTGGAGCTGGGACATCCCTGAT 1260
DB |||||
1261 AGGTTTCAATCCCTGGGACAGATGACAGGCTGTGACCCCTCAGCAGGGCCAGACAGGCT 1320
DB |||||
1261 AGGTTTCAATCCCTGGGACAGATGACAGGCTGTGACCCCTCAGCAGGGCCAGACAGGCT 1320
DB |||||
1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAATCTCTGGGCTCATGCCAGTGTGC 1380
DB |||||
1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAATCTCTGGGCTCATGCCAGTGTGC 1380
DB |||||

1381 GACCTGCGCTTCTCCACTCCAGACCCCACTTGTCTTCCCTCCCTGGCGTCTCAGAC 1440
DB |||||
1381 GACCTGCGCTTCTCCACTCCAGACCCCACTTGTCTTCCCTCCCTGGCGTCTCAGAC 1440
DB |||||
1441 TTAGTCCCAAGGCTCTCTCTGATCAGCTGGTGTATGAAGAGAGGATCTGGGGTGAGACTG 1500
DB |||||
1441 TTAGTCCCAAGGCTCTCTCTGATCAGCTGGTGTATGAAGAGAGGATCTGGGGTGAGACTG 1500
DB |||||
1501 GGATTTCTGCTCTCTTTGAAACCACTGATCCAGCCCTTTCAGGAAAGCTTGTGAAAAACG 1560
DB |||||
1501 GGATTTCTGCTCTCTTTGAAACCACTGATCCAGCCCTTTCAGGAAAGCTTGTGAAAAACG 1560
DB |||||
1561 TGATTTCTGGCCCCCACAAGACCCCAAAAACCATCTCTGGGCTTGGTGAGGACTCTGA 1620
DB |||||
1561 TGATTTCTGGCCCCCACAAGACCCCAAAAACCATCTCTGGGCTTGGTGAGGACTCTGA 1620
DB |||||
1621 ATTCTAAACAATGCCCCAGTGTGCACTTGAAGTTTGAAGGCCAGTGGGCTGTATGAAC 1680
DB |||||
1621 ATTCTAAACAATGCCCCAGTGTGCACTTGAAGTTTGAAGGCCAGTGGGCTGTATGAAC 1680
DB |||||
1681 GCTCACACCCCTTTCAGCTTAGAGTCTGCAATTTGGGCTGTGAAGCTCTCCACCTGCCCAAT 1740
DB |||||
1681 GCTCACACCCCTTTCAGCTTAGAGTCTGCAATTTGGGCTGTGAAGCTCTCCACCTGCCCAAT 1740
DB |||||
1741 AGATCTGCTCTGTCTCGGACACAGATCCAGTGGGACTTCCCTCAGGCTCTCTAAGTC 1800
DB |||||
1741 AGATCTGCTCTGTCTCGGACACAGATCCAGTGGGACTTCCCTCAGGCTCTCTAAGTC 1800
DB |||||
1801 CAGGCTTGGTCTAGGTGACATTCAGGATTAAGCCAGGACCGGACAGAGAGTGG 1860
DB |||||
1801 CAGGCTTGGTCTAGGTGACATTCAGGATTAAGCCAGGACCGGACAGAGAGTGG 1860
DB |||||
1861 TTGCTTTTTCCTTCCCTTCCCTGNCATGCTTCTTGGCTTTGAAAAAATGATGA 1920
DB |||||
1861 TTGCTTTTTCCTTCCCTTCCCTGNCATGCTTCTTGGCTTTGAAAAAATGATGA 1920
DB |||||
1921 GAAAACTTGGCTTCTCTTGTCTGGAAGGGTTACTTGGCTATGGGTTCTGGTGCTA 1980
DB |||||
1921 GAAAACTTGGCTTCTCTTGTCTGGAAGGGTTACTTGGCTATGGGTTCTGGTGCTA 1980
DB |||||
1981 GAGAGAAAGTGAAGAAACAGAGTGCACTGATAGTGTCTTAACACAGAGGAGATGAGAAC 2040
DB |||||
1981 GAGAGAAAGTGAAGAAACAGAGTGCACTGATAGTGTCTTAACACAGAGGAGATGAGAAC 2040
DB |||||
2041 GGGCGATACCTGAAAGTGACTCCAGTCCAGCCCTGGAGAGGGGTGGGGTGGTG 2100
DB |||||
2041 GGGCGATACCTGAAAGTGACTCCAGTCCAGCCCTGGAGAGGGGTGGGGTGGTG 2100
DB |||||
2101 GTAAAGTAGCAACAATACTATTTTCTTTTCCATTTATTTATTTTAAAGACAGA 2160
DB |||||
2101 GTAAAGTAGCAACAATACTATTTTCTTTTCCATTTATTTATTTTAAAGACAGA 2160
DB |||||
2161 ATCTGCTGTGCTGCCAGGCTGGAGTGCACTGGGACGATCTGCAAACTCCGCTCTGG 2220
DB |||||
2161 ATCTGCTGTGCTGCCAGGCTGGAGTGCACTGGGACGATCTGCAAACTCCGCTCTGG 2220
DB |||||
2221 GTTCAAGTGAATCTCTGCTCAGCCTCCGAGTGTGGATTACAGGACCGCACACC 2280
DB |||||
2221 GTTCAAGTGAATCTCTGCTCAGCCTCCGAGTGTGGATTACAGGACCGCACACC 2280
DB |||||
2281 ACACCTGGCTAAATTTTGTACTTTTAGTAGAGATGGGGTTTCCATTTTGGCCAGGCTG 2340
DB |||||
2281 ACACCTGGCTAAATTTTGTACTTTTAGTAGAGATGGGGTTTCCATTTTGGCCAGGCTG 2340
DB |||||
2341 GTCTTGAATCTCTGACCTCAATGAGCCTCTGCTTCACTCTCCCAATTTGCCGGATTA 2400
DB |||||
2341 GTCTTGAATCTCTGACCTCAATGAGCCTCTGCTTCACTCTCCCAATTTGCCGGATTA 2400
DB |||||
2401 CAGGATGAGCCACTGTGTCTGCCCTATTTCTTTAAAAAGTGAATTAAGAGTTGTTC 2460
DB |||||
2401 CAGGATGAGCCACTGTGTCTGCCCTATTTCTTTAAAAAGTGAATTAAGAGTTGTTC 2460
DB |||||
2461 AGTATGCAAAACTTGGAAAGATGGAGGAGAAAAAGGAGAAAAAATGTCACCCA 2520
DB |||||


```
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089907
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089908
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089947
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/089948
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/089952
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/090246
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090252
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090254
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090349
; PRIOR FILING DATE: 1998-06-23
; PRIOR APPLICATION NUMBER: 60/090355
; PRIOR FILING DATE: 1998-06-23
; PRIOR APPLICATION NUMBER: 60/090429
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090431
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090435
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090444
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090445
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090472
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090535
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090540
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090542
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090676
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090678
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090690
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090694
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090695
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090696
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090862
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/090863
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/091360
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091478
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091519
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091626
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07

; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match      99.9%; Score 2747; DB 9; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTCACAGGTGTCACAGGCCCCAGAAATGCGGCTTCTGGTCTCTATGCGGTTCCTGCTG 60
Db 1 CTCACAGGTGTCACAGGCCCCAGAAATGCGGCTTCTGGTCTCTATGCGGTTCCTGCTG 60
Qy 61 CTCACAGGTGTCACAGGCCCCAGAGAAATCAGCGGGTTCCGAAGGGGACACT 120
Db 61 CTCACAGGTGTCACAGGCCCCAGAGAAATCAGCGGGTTCCGAAGGGGACACT 120
Qy 121 GTCTCCTGTCAGTGCACCTACAGGGAAGAGCTGAGGACACCCGGAAGTACTGGTGAGG 180
Db 121 GTCTCCTGTCAGTGCACCTACAGGGAAGAGCTGAGGACACCCGGAAGTACTGGTGAGG 180
Qy 181 AAGGTTGGGATCCTCTCTCTGCTCTGCGCACCATCTATGCAGAAAGAGGCCAG 240
Db 181 AAGGTTGGGATCCTCTCTCTGCTCTGCGCACCATCTATGCAGAAAGAGGCCAG 240
Qy 241 GAGACAATGAAGGGCAGGGGTGTCATCCGTGACAGCGCCGAGGAGCTCTCGCTCATTTG 300
Db 241 GAGACAATGAAGGGCAGGGGTGTCATCCGTGACAGCGCCGAGGAGCTCTCGCTCATTTG 300
Qy 301 ACCCTGTGAAACCTCACCCCTGCAAGACGCTGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
Db 301 ACCCTGTGAAACCTCACCCCTGCAAGACGCTGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
Qy 361 GSCCCGATGAGTCTTTACTGATCTCTGTTGCTCTTCCAGAGCCCTGCTCTCTCCC 420
Db 361 GSCCCGATGAGTCTTTACTGATCTCTGTTGCTCTTCCAGAGCCCTGCTCTCTCCC 420
Qy 421 TCCCTCTTCCACACCTTCCAGCCTCTGGGTACAAACACGCTGACGCCCCAAGGAAAAGCT 480
Db 421 TCCCTCTTCCACACCTTCCAGCCTCTGGGTACAAACACGCTGACGCCCCAAGGAAAAGCT 480
Qy 481 CAGCAAAACCCAGCCCCCAGGATTGACTTCTCTGGGGTCTACCCGGGAGCCACACAGCC 540
Db 481 CAGCAAAACCCAGCCCCCAGGATTGACTTCTCTGGGGTCTACCCGGGAGCCACACAGCC 540
Qy 541 AAGCAGGGAAGACAGGGGCTGAGGGCTGAGGGCTTCCATTGCGAGGACTTCCCAAGTAGGGGAC 600
Db 541 AAGCAGGGAAGACAGGGGCTGAGGGCTGAGGGCTTCCATTGCGAGGACTTCCCAAGTAGGGGAC 600
Qy 601 GAAAGGACTTCTCAGTACACAGGAACTCTCTCTCACCCAGCGACCTCTCTCTCTGCAAGG 660
Db 601 GAAAGGACTTCTCAGTACACAGGAACTCTCTCTCACCCAGCGACCTCTCTCTCTGCAAGG 660
Qy 661 AGCTCCGCCCCCCTGAGCTGAGTGCACCTCTCAGCAGGAGACACCACTGCTCTCTCTCTC 720
Db 661 AGCTCCGCCCCCCTGAGCTGAGTGCACCTCTCAGCAGGAGACACCACTGCTCTCTCTCTC 720
Qy 721 AGCAGTGGCAGCTCTAAGCCAGGGGTCCATCCGATGTCGCGATCTGCGCCAGTC 780
Db 721 AGCAGTGGCAGCTCTAAGCCAGGGGTCCATCCGATGTCGCGATCTGCGCCAGTC 780
Qy 781 CTGGTGTCTGAGCCCTTCTGTGAGCGGAGGCTGATCCCTTCTGACGCCACCTGCTC 840
Db 781 CTGGTGTCTGAGCCCTTCTGTGAGCGGAGGCTGATCCCTTCTGACGCCACCTGCTC 840
Qy 841 CTGTGAGAAAGGAAGCTCAAGGCAAGGACACAGAGGAAACGAGAAATTTCTGGCTC 900
Db 841 CTGTGAGAAAGGAAGCTCAAGGCAAGGACACAGAGGAAACGAGAAATTTCTGGCTC 900
Qy 901 TCACGCTTGAATGCGGAGGAAAGGAGCCCTTCCAGGCCCTTCCAGGGGAGCTGATC 960
Db 901 TCACGCTTGAATGCGGAGGAAAGGAGCCCTTCCAGGCCCTTCCAGGGGAGCTGATC 960
Qy 961 TCGATGCCTCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
```


APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730P1C15
CURRENT APPLICATION NUMBER: US/09/991,073
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827
PRIOR FILING DATE: 1998-06-03
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088025
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088028
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088212
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088217
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088655
PRIOR FILING DATE: 1998-06-09
PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088738
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088742
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088810
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088824
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088826
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088861
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088876
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089440
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089512
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089538
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089598
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089599
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089908
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089948
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090252
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090254
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090355
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090431
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090435
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090535
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090540
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090542
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090557
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090676
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090678
PRIOR FILING DATE: 1998-06-25

1681 GCTCACACCCCTTTCAGCTTAGAGTCTGCAATTTGGGCTGTGACGCTCTCCACCTGCCCAAT 1740
1681 GCTCACACCCCTTTCAGCTTAGAGTCTGCAATTTGGGCTGTGACGCTCTCCACCTGCCCAAT 1740
1741 AGATCTGCTCTGTCTGCGACACAGATCCACGTGGGAGCTCCCTCGAGGCTCTCTAAGTC 1800
1741 AGATCTGCTCTGTCTGCGACACAGATCCACGTGGGAGCTCCCTCGAGGCTCTCTAAGTC 1800
1801 CAGGCTTGTCTAGTCTAGTCTGACATTCAGGATTAAGCCAGGACCGGCACAGAGTGG 1860
1801 CAGGCTTGTCTAGTCTAGTCTGACATTCAGGATTAAGCCAGGACCGGCACAGAGTGG 1860
1861 TTGCTTTTNCATTTGCTCTCCCTCCCTGNCATGCTCTTCTGCTTTTGGAAAAATGATGA 1920
1861 TTGCTTTTNCATTTGCTCTCCCTCCCTGNCATGCTCTTCTGCTTTTGGAAAAATGATGA 1920
1921 GAAAACTTGGCTCTCTTCTTGTCTGGAAGGGTTACTTGCCTATGCGTTCTGGTGCTA 1980
1921 GAAAACTTGGCTCTCTTCTTGTCTGGAAGGGTTACTTGCCTATGCGTTCTGGTGCTA 1980
1981 GAGAAAAAGTAGAAAAACAGAGTGCACGTAGTGTCTTAACACAGAGGAGTAGGAACA 2040
1981 GAGAAAAAGTAGAAAAACAGAGTGCACGTAGTGTCTTAACACAGAGGAGTAGGAACA 2040
2041 GGGCGGATACCTGAAGGTGACTCCGAGTCCAGCCCTCGAGAGGGGTCCGGGGTGGTG 2100
2041 GGGCGGATACCTGAAGGTGACTCCGAGTCCAGCCCTCGAGAGGGGTCCGGGGTGGTG 2100
2101 GTAAAGTAGCACAACTACTATTTTTTTTCTTTTTCATTTATTTGTTTTTAAAGACAGA 2160
2101 GTAAAGTAGCACAACTACTATTTTTTTTCTTTTTCATTTATTTGTTTTTAAAGACAGA 2160
2161 ATCTGCTGCTGCCAGCTGAGTGCAGTGGCAGCATCTGCAAACTCCGCTCTCTGG 2220
2161 ATCTGCTGCTGCCAGCTGAGTGCAGTGGCAGCATCTGCAAACTCCGCTCTCTGG 2220
2221 GTTCAAGTGAATCTTCTGCTCAGCTCCGAGTGTAGCTGGATTTACAGGACGACCAACC 2280
2221 GTTCAAGTGAATCTTCTGCTCAGCTCCGAGTGTAGCTGGATTTACAGGACGACCAACC 2280
2281 ACACCTGGCTAAATTTTGTACTTTTGTAGAGATGGGGTTTCCACATTTGGCCAGGCTG 2340
2281 ACACCTGGCTAAATTTTGTACTTTTGTAGAGATGGGGTTTCCACATTTGGCCAGGCTG 2340
2341 GTCTTGAACCTCTGACCTCAATGAGCCTCTGCTTCAAGTCTCCCAAAATTCGCGGATTA 2400
2341 GTCTTGAACCTCTGACCTCAATGAGCCTCTGCTTCAAGTCTCCCAAAATTCGCGGATTA 2400
2401 CAGCATGAGCCTGCTGCTGGCTTATTTTCAAGAGTGAAGTGAAGTGTCTTC 2460
2401 CAGCATGAGCCTGCTGCTGGCTTATTTTCAAGAGTGAAGTGAAGTGTCTTC 2460
2461 AGTATGCAAACTTTGGAAGATGGAGGAGAAAAAGAAAAATGTCAACCA 2520
2461 AGTATGCAAACTTTGGAAGATGGAGGAGAAAAAGAAAAATGTCAACCA 2520
2521 TAGTCTCAGCAGACATCATTTATTTGTTGTGTAATCTCTCTCCACTCTTTCTTC 2580
2521 TAGTCTCAGCAGACATCATTTATTTGTTGTGTAATCTCTCTCCACTCTTTCTTC 2580
2581 TTCAATAATTTGCGGTGTTCTTTTACAGAGCAATTTCTGTATATACACTTTGTA 2640
2581 TTCAATAATTTGCGGTGTTCTTTTACAGAGCAATTTCTGTATATACACTTTGTA 2640
2641 TCCTGCTTTTCCACTTATGTTTCCATCTATTTTCCAGCACTCTCTGTGTTTACA 2700
2641 TCCTGCTTTTCCACTTATGTTTCCATCTATTTTCCAGCACTCTCTGTGTTTACA 2700
2701 GACCTTTTATAATAAATGTTTCACTGCTGCAATAAAAAA 2749
2701 GACCTTTTATAATAAATGTTTCACTGCTGCAATAAAAAA 2749

RESULT 8
US-09-990-442-516
; Sequence 516, Application US/09990442
; Patent No. US20020132252A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Baton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C8
; CURRENT APPLICATION NUMBER: US/09/990,442
; PRIOR FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088021
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088025
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088026
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088028
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088029
; PRIOR FILING DATE: 1998-06-04

1	PRIOR FILING DATE: 1998-06-23	
2	PRIOR APPLICATION NUMBER: 60/090355	
3	PRIOR FILING DATE: 1998-06-23	
4	PRIOR APPLICATION NUMBER: 60/090429	
5	PRIOR FILING DATE: 1998-06-24	
6	PRIOR APPLICATION NUMBER: 60/090431	
7	PRIOR FILING DATE: 1998-06-24	
8	PRIOR APPLICATION NUMBER: 60/090435	
9	PRIOR FILING DATE: 1998-06-24	
10	PRIOR APPLICATION NUMBER: 60/090444	
11	PRIOR FILING DATE: 1998-06-24	
12	PRIOR APPLICATION NUMBER: 60/090445	
13	PRIOR FILING DATE: 1998-06-24	
14	PRIOR APPLICATION NUMBER: 60/090472	
15	PRIOR FILING DATE: 1998-06-24	
16	PRIOR APPLICATION NUMBER: 60/090535	
17	PRIOR FILING DATE: 1998-06-24	
18	PRIOR APPLICATION NUMBER: 60/090540	
19	PRIOR FILING DATE: 1998-06-24	
20	PRIOR APPLICATION NUMBER: 60/090542	
21	PRIOR FILING DATE: 1998-06-24	
22	PRIOR APPLICATION NUMBER: 60/090557	
23	PRIOR FILING DATE: 1998-06-24	
24	PRIOR APPLICATION NUMBER: 60/090676	
25	PRIOR FILING DATE: 1998-06-25	
26	PRIOR APPLICATION NUMBER: 60/090678	
27	PRIOR FILING DATE: 1998-06-25	
28	PRIOR APPLICATION NUMBER: 60/090690	
29	PRIOR FILING DATE: 1998-06-25	
30	PRIOR APPLICATION NUMBER: 60/090694	
31	PRIOR FILING DATE: 1998-06-25	
32	PRIOR APPLICATION NUMBER: 60/090695	
33	PRIOR FILING DATE: 1998-06-25	
34	PRIOR APPLICATION NUMBER: 60/090696	
35	PRIOR FILING DATE: 1998-06-25	
36	PRIOR APPLICATION NUMBER: 60/090862	
37	PRIOR FILING DATE: 1998-06-26	
38	PRIOR APPLICATION NUMBER: 60/090863	
39	PRIOR FILING DATE: 1998-06-26	
40	PRIOR APPLICATION NUMBER: 60/091360	
41	PRIOR FILING DATE: 1998-07-01	
42	PRIOR APPLICATION NUMBER: 60/091478	
43	PRIOR FILING DATE: 1998-07-02	
44	PRIOR APPLICATION NUMBER: 60/091544	
45	PRIOR FILING DATE: 1998-07-01	
46	PRIOR APPLICATION NUMBER: 60/091519	
47	PRIOR FILING DATE: 1998-07-02	
48	PRIOR APPLICATION NUMBER: 60/091626	
49	PRIOR FILING DATE: 1998-07-02	
50	PRIOR APPLICATION NUMBER: 60/091633	
51	PRIOR FILING DATE: 1998-07-02	
52	PRIOR APPLICATION NUMBER: 60/091978	
53	PRIOR FILING DATE: 1998-07-07	
54	PRIOR APPLICATION NUMBER: 60/091982	
55	PRIOR FILING DATE: 1998-07-07	
56	PRIOR APPLICATION NUMBER: 60/092182	
57	PRIOR FILING DATE: 1998-07-09	

Query Match 99.9%; Score 2747; DB 9; Length 2749;

QY	181	AAGGTTGGGATCTCTTCTCTGCTCTGCTCTGGCACCATCTATGACAGAAAGAGGCCAG	240
Db	181	AAGGTTGGGATCTCTTCTCTGCTCTGCTCTGGCACCATCTATGACAGAAAGAGGCCAG	240
QY	241	GAGACAATGAAGGCGAGGGTGTCCATCCTGTGACAGCGCCAGAGGCTCTCGCTCATTTGTG	300
Db	241	GAGACAATGAAGGCGAGGGTGTCCATCCTGTGACAGCGCCAGAGGCTCTCGCTCATTTGTG	300
QY	301	ACCTGTGGAACTCACCCTGCAAGAGCTGGGGAGTACTGGTGTGGGGTTCGAAAAACGG	360
Db	301	ACCTGTGGAACTCACCCTGCAAGAGCTGGGGAGTACTGGTGTGGGGTTCGAAAAACGG	360
QY	361	GGCCCGGATCAGTCTTTACTGATCTCTCTGCTCTTTCCAGAGCCCTGCTGCTCTCCC	420
Db	361	GGCCCGGATGAGTCTTTACTGATCTCTCTGCTCTTTCCAGAGCCCTGCTGCTCTCCC	420
QY	421	TCCCTTTCTCCACCTTCCAGCCTCTGGCTCAACACGCTGACGCCCAAGGCAAAAGCT	480
Db	421	TCCCTTTCTCCACCTTCCAGCCTCTGGCTCAACACGCTGACGCCCAAGGCAAAAGCT	480
QY	481	CAGCAAAACCCAGGCCCGCAGGATTTGACTTCTCTGGGCTTACCGGAGGCCACACAGCC	540
Db	481	CAGCAAAACCCAGGCCCGCAGGATTTGACTTCTCTGGGCTTACCGGAGGCCACACAGCC	540
QY	541	AAGCAGGGGAAGACAGGGGCTGAGGGCCCTCCATTGTCAGGGGACTTCCCAAGTACGGGCAC	600
Db	541	AAGCAGGGGAAGACAGGGGCTGAGGGCCCTCCATTGTCAGGGGACTTCCCAAGTACGGGCAC	600
QY	601	GAAAGGACTTCTCAGTACACAGGAACTCTCCTCACCCAGCGACCTCTCTCTCTGCAAGG	660
Db	601	GAAAGGACTTCTCAGTACACAGGAACTCTCCTCACCCAGCGACCTCTCTCTCTGCAAGG	660
QY	661	AGCTCCCGCCCGCCCTGACGCTGGAATCTTCTCTGGGCTTACCGGAGGCCACACAGCTCTC	720
Db	661	AGCTCCCGCCCGCCCTGACGCTGGAATCTTCTCTGGGCTTACCGGAGGCCACACAGCTCTC	720
QY	721	AGCAGTGGCAGCTTAAGCCCGACGGGTGTCCATCCGATGTCGCGATACCTGCCCCAGTC	780
Db	721	AGCAGTGGCAGCTTAAGCCCGACGGGTGTCCATCCGATGTCGCGATACCTGCCCCAGTC	780
QY	781	CTGGTGTCTGACCTTCTGTGAGCGCGAGGCTGATCGCCTTCTGACGCCACCTGCTC	840
Db	781	CTGGTGTCTGAGCTTCTGTGAGCGCGAGGCTGATCGCCTTCTGACGCCACCTGCTC	840
QY	841	CTGTGGAGAAAGAGCTCAACAGGCCACCGAGACACAGAGGAAACGAGAAATTTCTGGCTC	900
Db	841	CTGTGGAGAAAGAGCTCAACAGGCCACCGAGACACAGAGGAAACGAGAAATTTCTGGCTC	900
QY	901	TACGCTTTGACTCGGAGGAAAAAGGAAGCCCTTCCAGGCCCTGAGGGGAGCGTGATC	960
Db	901	TACGCTTTGACTCGGAGGAAAAAGGAAGCCCTTCCAGGCCCTGAGGGGAGCGTGATC	960
QY	961	TCGATGCTCCCTCCACATCTGAGGAGGAGCTGGGCTTCTCGAAATTTGTCTCAGCG	1020
Db	961	TCGATGCTCCCTCCACATCTGAGGAGGAGCTGGGCTTCTCGAAATTTGTCTCAGCG	1020
QY	1021	TAGGGGAGGAGGCCCTCTGCGCAGGCGCAGCAGTGAAGAGTATGGCTGGCTGGATCAGC	1080
Db	1021	TAGGGGAGGAGGCCCTCTGCGCAGGCGCAGCAGTGAAGAGTATGGCTGGCTGGATCAGC	1080
QY	1081	ACCGATTTCCGAAAGCTTTCCACTCAGCTCAGAGTCCAGCTGCGGAGCTCCAGGGCT	1140
Db	1081	ACCGATTTCCGAAAGCTTTCCACTCAGCTCAGAGTCCAGCTGCGGAGCTCCAGGGCT	1140
QY	1141	CTCCCAACCTCCCGAGGCTCTCTCTTGTGATGTTTCAGGCTGACCTAGAGGCTTTGTC	1200
Db	1141	CTCCCAACCTCCCGAGGCTCTCTCTTGTGATGTTTCAGGCTGACCTAGAGGCTTTGTC	1200
QY	1201	AGCCCTGGAGCCAGAGCGGTGGCTTGTCTTCCGGCTGGAGCTGGGACATCCCTGAT	1260
Db	1201	AGCCCTGGAGCCAGAGCGGTGGCTTGTCTTCCGGCTGGAGCTGGGACATCCCTGAT	1260

QY	1261	AGGTTCACATCCCTGGGCGAGGTACAGGCTGTGTGACCCCTCAGCAGGGCCAGACAAGGCT	1320
Db	1261	AGGTTCACATCCCTGGGCGAGGTACAGGCTGTGTGACCCCTCAGCAGGGCCAGACAAGGCT	1320
QY	1321	CAGTGAATCTGGTCTGAGTTTCAATCTGCCAGGAACTCTCTGGGCTCTATGCCAGTGTG	1380
Db	1321	CAGTGAATCTGGTCTGAGTTTCAATCTGCCAGGAACTCTCTGGGCTCTATGCCAGTGTG	1380
QY	1381	GACCTTGCCTTCTCTCCACTCCAGAGCCCACTTGTCTTCCCTCTCTGGGCTCTCAGAC	1440
Db	1381	GACCTTGCCTTCTCTCCACTCCAGAGCCCACTTGTCTTCCCTCTCTGGGCTCTCAGAC	1440
QY	1441	TTAGTCCCACGGTCTCTCTGTCATCAGCTGGTGTGATGAAGAGAGCATGCTGGGGTGA	1500
Db	1441	TTAGTCCCACGGTCTCTCTGTCATCAGCTGGTGTGATGAAGAGAGCATGCTGGGGTGA	1500
QY	1501	GGATCTGGCTTCTCTTTGAAACCACTGATCCAGCCCTTTCAGGAAAGCCCTGTGAAAAACG	1560
Db	1501	GGATCTGGCTTCTCTTTGAAACCACTGATCCAGCCCTTTCAGGAAAGCCCTGTGAAAAACG	1560
QY	1561	TGATTCCTGGCCCAACAGAGCCCAACCAACCACTCTCTGGGCTTGGTGAGGACTCTGA	1620
Db	1561	TGATTCCTGGCCCAACAGAGCCCAACCAACCACTCTCTGGGCTTGGTGAGGACTCTGA	1620
QY	1621	ATTCTAACCAATGCCAGTGAATCTGCGCATTTGAGTTTGAAGGGCCAGTGGGCTGATGAAC	1680
Db	1621	ATTCTAACCAATGCCAGTGAATCTGCGCATTTGAGTTTGAAGGGCCAGTGGGCTGATGAAC	1680
QY	1681	GCTCAACCCCTTTCAGCTTAGAGTCTGCAATTTGGGCTGTGACGCTCTCCACCTGCCCCAAT	1740
Db	1681	GCTCAACCCCTTTCAGCTTAGAGTCTGCAATTTGGGCTGTGACGCTCTCCACCTGCCCCAAT	1740
QY	1741	AGATCTGCTCTGTCTCGGACACAGATCCAGTGGGGACTTCCCTGAGGGCTCTCTAAGTC	1800
Db	1741	AGATCTGCTCTGTCTCGGACACAGATCCAGTGGGGACTTCCCTGAGGGCTCTCTAAGTC	1800
QY	1801	CAGGCTTGGTCAAGTCAAGTGTGCAATTCAGGATAAGCCACAGGACCGGACAGAAAGTGG	1860
Db	1801	CAGGCTTGGTCAAGTCAAGTGTGCAATTCAGGATAAGCCACAGGACCGGACAGAAAGTGG	1860
QY	1861	TTGCTTTTNCATTTGCCCTCCCTGNCATGCTCTTGGCTTTGGAAAAATGATGAA	1920
Db	1861	TTGCTTTTNCATTTGCCCTCCCTGNCATGCTCTTGGCTTTGGAAAAATGATGAA	1920
QY	1921	GAAAACTTGGCTCTTCTTCTGCGAAGGGTACTTGGCTTATGCTGCTGCTGCTGCTA	1980
Db	1921	GAAAACTTGGCTCTTCTTCTGCGAAGGGTACTTGGCTTATGCTGCTGCTGCTGCTA	1980
QY	1981	GAGAGAAAAAGTAGAAAAACAGAGTGCAGTAGGTGTCTAAACAGAGGAGAGTAGGAACA	2040
Db	1981	GAGAGAAAAAGTAGAAAAACAGAGTGCAGTAGGTGTCTAAACAGAGGAGAGTAGGAACA	2040
QY	2041	GGCGGATACCTGAAGGTGACTCCGAGTCCAGCCCTGAGAGGGGTCTGGGGTGGTG	2100
Db	2041	GGCGGATACCTGAAGGTGACTCCGAGTCCAGCCCTGAGAGGGGTCTGGGGTGGTG	2100
QY	2101	GTAAAGTAGCACAACCTACTATTTTCTTTTCCATTTATTTGTTTTTAAAGACAGA	2160
Db	2101	GTAAAGTAGCACAACCTACTATTTTCTTTTCCATTTATTTGTTTTTAAAGACAGA	2160
QY	2161	ATCTCGTGTCTGCCAGGCTGAGTGCAGTGGCAGCATCTGCAAACTCCGCTCTCTGG	2220
Db	2161	ATCTCGTGTCTGCCAGGCTGAGTGCAGTGGCAGCATCTGCAAACTCCGCTCTCTGG	2220
QY	2221	GTTCAAAGTGAATTTCTTGTGCTCAGCCTCCGAGTAGCTGGGATTAAGGACGCAACCC	2280
Db	2221	GTTCAAAGTGAATTTCTTGTGCTCAGCCTCCGAGTAGCTGGGATTAAGGACGCAACCC	2280
QY	2281	ACACCTGGGCTTAATTTTGTACTTTTAGTAGAGATGGGTTTACACCATGTTGGCCAGGCTG	2340
Db	2281	ACACCTGGGCTTAATTTTGTACTTTTAGTAGAGATGGGTTTACACCATGTTGGCCAGGCTG	2340
QY	2341	GTCTTGAACCTCCTGACCTCAAATGAGCCTCTCTGCTTTCAGTCTCCCAAAATTCGCGGATTA	2400


```
/ PRIOR APPLICATION NUMBER: 60/089598
/ PRIOR FILING DATE: 1998-06-17
/ PRIOR APPLICATION NUMBER: 60/089599
/ PRIOR FILING DATE: 1998-06-17
/ PRIOR APPLICATION NUMBER: 60/089600
/ PRIOR FILING DATE: 1998-06-17
/ PRIOR APPLICATION NUMBER: 60/089653
/ PRIOR FILING DATE: 1998-06-17
/ PRIOR APPLICATION NUMBER: 60/089801
/ PRIOR FILING DATE: 1998-06-18
/ PRIOR APPLICATION NUMBER: 60/089907
/ PRIOR FILING DATE: 1998-06-18
/ PRIOR APPLICATION NUMBER: 60/089908
/ PRIOR FILING DATE: 1998-06-18
/ PRIOR APPLICATION NUMBER: 60/089947
/ PRIOR FILING DATE: 1998-06-19
/ PRIOR APPLICATION NUMBER: 60/089948
/ PRIOR FILING DATE: 1998-06-19
/ PRIOR APPLICATION NUMBER: 60/089952
/ PRIOR FILING DATE: 1998-06-19
/ PRIOR APPLICATION NUMBER: 60/090246
/ PRIOR FILING DATE: 1998-06-22
/ PRIOR APPLICATION NUMBER: 60/090252
/ PRIOR FILING DATE: 1998-06-22
/ PRIOR APPLICATION NUMBER: 60/090254
/ PRIOR FILING DATE: 1998-06-22
/ PRIOR APPLICATION NUMBER: 60/090349
/ PRIOR FILING DATE: 1998-06-23
/ PRIOR APPLICATION NUMBER: 60/090355
/ PRIOR FILING DATE: 1998-06-23
/ PRIOR APPLICATION NUMBER: 60/090429
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090431
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090435
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090444
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090445
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090472
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090535
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090540
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090542
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090557
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090676
/ PRIOR FILING DATE: 1998-06-25
/ PRIOR APPLICATION NUMBER: 60/090678
/ PRIOR FILING DATE: 1998-06-25
/ PRIOR APPLICATION NUMBER: 60/090690
/ PRIOR FILING DATE: 1998-06-25
/ PRIOR APPLICATION NUMBER: 60/090694
/ PRIOR FILING DATE: 1998-06-25
/ PRIOR APPLICATION NUMBER: 60/090695
/ PRIOR FILING DATE: 1998-06-25
/ PRIOR APPLICATION NUMBER: 60/090696
/ PRIOR FILING DATE: 1998-06-25
/ PRIOR APPLICATION NUMBER: 60/090862
/ PRIOR FILING DATE: 1998-06-26
/ PRIOR APPLICATION NUMBER: 60/090863
/ PRIOR FILING DATE: 1998-06-26
/ PRIOR APPLICATION NUMBER: 60/091360
/ PRIOR FILING DATE: 1998-07-01
/ PRIOR APPLICATION NUMBER: 60/091478
/ PRIOR FILING DATE: 1998-07-02
/ PRIOR APPLICATION NUMBER: 60/091544
/ PRIOR FILING DATE: 1998-07-01
/ PRIOR APPLICATION NUMBER: 60/091519

Query Match          99.9%; Score 2747; DB 9; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCCACGGTGTCCAGGCGCCAGAAATGCGGCTTCTGGTCTCTGTATGGGGTTGCGTGTCTG 60
Db 1 CTCCACGGTGTCCAGGCGCCAGAAATGCGGCTTCTGGTCTCTGTATGGGGTTGCGTGTCTG 60
QY 61 CTCCACGGTGTATGAAGCCCTGGAGGCGCCAGAGGAAATCAGCGGTTTGAAGGGGACACT 120
Db 61 CTCCACGGTGTATGAAGCCCTGGAGGCGCCAGAGGAAATCAGCGGTTTGAAGGGGACACT 120
QY 121 GTGTCTCTTCAGTGCACCTACAGGGGAAGAGCTGAGGGACCCACCGGAAGTACTGCTGCGG 180
Db 121 GTGTCTCTTCAGTGCACCTACAGGGGAAGAGCTGAGGGACCCACCGGAAGTACTGCTGCGG 180
QY 181 AGGGTGGGATCTCTTCTCTCTGCTCTCTGGCACCATCTATTCAGAGNAGAGGCCAG 240
Db 181 AGGGTGGGATCTCTTCTCTCTGCTCTCTGGCACCATCTATTCAGAGNAGAGGCCAG 240
QY 241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCGCCGAGGAGCTCTCGCTCATTTGTG 300
Db 241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCGCCGAGGAGCTCTCGCTCATTTGTG 300
QY 301 ACCCTGTGAAACCTCACCCCTGCAAGACGCTGGGGAGTACTGTGTGGGGTTCGAAAAACGG 360
Db 301 ACCCTGTGAAACCTCACCCCTGCAAGACGCTGGGGAGTACTGTGTGGGGTTCGAAAAACGG 360
QY 361 GGCCCGGATGAGTCTTTACTGATCTCTCTGTCTCTTTCCAGGACCTGCTCTCTCTCC 420
Db 361 GGCCCGGATGAGTCTTTACTGATCTCTCTGTCTCTTTCCAGGACCTGCTCTCTCTCC 420
QY 421 TCCCTTCTCCACCTTCCAGCCTCTGGGTACAAACAGCTGAGCCGCTGAGCCCAAGGAAAAGCT 480
Db 421 TCCCTTCTCCACCTTCCAGCCTCTGGGTACAAACAGCTGAGCCGCTGAGCCCAAGGAAAAGCT 480
QY 481 CAGCAAAACCCAGCCCGCCAGGATTTGACTTCTCTGGGCTCTTACCCGGCAGCCACACAGCC 540
Db 481 CAGCAAAACCCAGCCCGCCAGGATTTGACTTCTCTGGGCTCTTACCCGGCAGCCACACAGCC 540
QY 541 AGCAGGGGAAGACAGGGGCTGAGGGCCCTCCATTCAGGAGGACTTCCCGAGTACGGGCAC 600
Db 541 AGCAGGGGAAGACAGGGGCTGAGGGCCCTCCATTCAGGAGGACTTCCCGAGTACGGGCAC 600
QY 601 GAAAGGACTTCTCAGTACACAGGAACTCTCTCTCACCCAGGACCTCTCTCTCTGAGGG 660
Db 601 GAAAGGACTTCTCAGTACACAGGAACTCTCTCTCACCCAGGACCTCTCTCTCTGAGGG 660
QY 661 AGCTCCCGCCCGCCCATGAGCTGGACTCCACTCAGCAGAGACACCAAGTCCAGCTCTC 720
Db 661 AGCTCCCGCCCGCCCATGAGCTGGACTCCACTCAGCAGAGACACCAAGTCCAGCTCTC 720
QY 721 AGCAGTGGCAGCTCTAAGCCAGGGTGTCCATCCCGATGGTCCGATACCTGGGCCGAGTC 780
Db 721 AGCAGTGGCAGCTCTAAGCCAGGGTGTCCATCCCGATGGTCCGATACCTGGGCCGAGTC 780
QY 781 CTGGTCTCTGAGCCTTCTGTGAGCGGCGCTGATCGCCCTTCTGACGACCACTGCTC 840
Db 781 CTGGTCTCTGAGCCTTCTGTGAGCGGCGCTGATCGCCCTTCTGACGACCACTGCTC 840
QY 841 CTGTGGGAAAGGAAGCTCAACAGGCCACAGAGGAAACGAGAAAGTTCTTGCTC 900
```

Db 841 |||||CTGTGGAGAGGAAGCTCAACAGGCCACGAGAGACACAGAGGAACGAGAAAGTTCTGGCTC 900
Qy 901 |||||TCACGCTTGACTGGGAGGAGAAAGAGCCCTTCCAGAGCCCTCGAGGGGAGCGTATC 960
Db 901 |||||TCACGCTTGACTGGGAGGAGAAAGAGCCCTTCCAGAGCCCTCGAGGGGAGCGTATC 960
Qy 961 |||||TCGATGCTCCCTCCACACATCTGAGGAGGAGCTGGGCTTCGCAAGTTTGTCTCAGCG 1020
Db 961 |||||TCGATGCTCCCTCCACACATCTGAGGAGGAGCTGGGCTTCGCAAGTTTGTCTCAGCG 1020
Qy 1021 |||||TAGGGAGGAGGCTCCTCGCAGGCCACGAGTGAAGCAGTATGGCTGCTGATCAGC 1080
Db 1021 |||||TAGGGAGGAGGCTCCTCGCAGGCCACGAGTGAAGCAGTATGGCTGCTGATCAGC 1080
Qy 1081 |||||ACCGATTCCCGAAAGCTTTCACCTCAGCTCAGCTCAGCTGCCCCGAGCTCCAGGGCT 1140
Db 1081 |||||ACCGATTCCCGAAAGCTTTCACCTCAGCTCAGCTCAGCTGCCCCGAGCTCCAGGGCT 1140
Qy 1141 |||||CTCCCAACCTCCCGAGGCTCTCTCTTGATGCTTCAGGCTGACCTAGAAAGGCTTTGTC 1200
Db 1141 |||||CTCCCAACCTCCCGAGGCTCTCTCTTGATGCTTCAGGCTGACCTAGAAAGGCTTTGTC 1200
Qy 1201 |||||AGCCTGGAGCCAGAGCGGTGGCTTGCTTCCGCTCGAGACTGGGACATCCCTGAT 1260
Db 1201 |||||AGCCTGGAGCCAGAGCGGTGGCTTGCTTCCGCTCGAGACTGGGACATCCCTGAT 1260
Qy 1261 |||||AGGTTTCAATCTCCGAGGAGTACAGGCTGCTGACCTCAGCAGGCGCCAGACAGGCT 1320
Db 1261 |||||AGGTTTCAATCTCCGAGGAGTACAGGCTGCTGACCTCAGCAGGCGCCAGACAGGCT 1320
Qy 1321 |||||CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAATCTCTGGGCTCATGCCAGTGTG 1380
Db 1321 |||||CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAATCTCTGGGCTCATGCCAGTGTG 1380
Qy 1381 |||||GACCTGCTTCTCCACACTCCAGACCCACCTTGCTTCCCTCCCTGGGCTCTCAGAC 1440
Db 1381 |||||GACCTGCTTCTCCACACTCCAGACCCACCTTGCTTCCCTCCCTGGGCTCTCAGAC 1440
Qy 1441 |||||TTAGTCCACGGTCTCTGATCAGCTGAGTGAAGAGGAGCATGCTGGGGTGAGACTG 1500
Db 1441 |||||TTAGTCCACGGTCTCTGATCAGCTGAGTGAAGAGGAGCATGCTGGGGTGAGACTG 1500
Qy 1501 |||||GGATTCTGGCTTCTTTGAACCACTGCATCCAGCCCTTCAGGAAGCTGTGAAAAAG 1560
Db 1501 |||||GGATTCTGGCTTCTTTGAACCACTGCATCCAGCCCTTCAGGAAGCTGTGAAAAAG 1560
Qy 1561 |||||TGATTCTGGCCCCACCAAGACCCCAAAACCCTCTGGGCTTGGTGAGGACTCTGA 1620
Db 1561 |||||TGATTCTGGCCCCACCAAGACCCCAAAACCCTCTGGGCTTGGTGAGGACTCTGA 1620
Qy 1621 |||||ATTCTAACAAATGCCAGTGACTGTGCGACCTTGAGTTTGGGGCCAGTGGGCTGATGAAC 1680
Db 1621 |||||ATTCTAACAAATGCCAGTGACTGTGCGACCTTGAGTTTGGGGCCAGTGGGCTGATGAAC 1680
Qy 1681 |||||GCTCACACCCCTTCAGCTTAGAGTCTGCAATTTGGGCTGTGACGCTCTCACCTGCCCAAT 1740
Db 1681 |||||GCTCACACCCCTTCAGCTTAGAGTCTGCAATTTGGGCTGTGACGCTCTCACCTGCCCAAT 1740
Qy 1741 |||||AGATCTGCTCTGTCTGGACACACAGATCCAGTGGGACTCCCTCGAGGGCTGCTAAGTC 1800
Db 1741 |||||AGATCTGCTCTGTCTGGACACACAGATCCAGTGGGACTCCCTCGAGGGCTGCTAAGTC 1800
Qy 1801 |||||CAGGCTTGTGTCAGTTCAGTGCACATTCGAGGATAGCCAGGACCGGCACAGAGTGG 1860
Db 1801 |||||CAGGCTTGTGTCAGTTCAGTGCACATTCGAGGATAGCCAGGACCGGCACAGAGTGG 1860
Qy 1861 |||||TTGCTTTNCCATTGGCCCTCCCTGNNCCATGCTTCTTGCTTTTGGAAAAAATGATGAA 1920
Db 1861 |||||TTGCTTTNCCATTGGCCCTCCCTGNNCCATGCTTCTTGCTTTTGGAAAAAATGATGAA 1920
Qy 1921 |||||GAAAACTTGGCTCTTCTTGCTTGAAAGGGTTACTTCCCTATGGGTTCTGGTGCTA 1980

Db 1921 |||||GAAAACTTGGCTCTTCTTGCTTGAAAGGGTTACTTCCCTATGGGTTCTGGTGCTA 1980
Qy 1981 |||||GAGAGAAAAGTAGAAAACCAAGAGTCAGAGTGTCTAAACAGAGAGAGAGTAGGAACA 2040
Db 1981 |||||GAGAGAAAAGTAGAAAACCAAGAGTCAGAGTGTCTAAACAGAGAGAGAGTAGGAACA 2040
Qy 2041 |||||GGCGGATACCTGAAGGTGACTCCGAGTCAGAGTCCAGCCCTCGAGAGAGGGGTGGTG 2100
Db 2041 |||||GGCGGATACCTGAAGGTGACTCCGAGTCAGAGTCCAGCCCTCGAGAGAGGGGTGGTG 2100
Qy 2101 |||||GTAAGTAGCACAACACTACTATTTTCTTTTCCATTAATTTGTTTTTAAGACAGA 2160
Db 2101 |||||GTAAGTAGCACAACACTACTATTTTCTTTTCCATTAATTTGTTTTTAAGACAGA 2160
Qy 2161 |||||ATCTCGTGTCTGCCAGGCTGGAGTGCAGTGGCAGATCTGCAAACTCCGCTCTCTGG 2220
Db 2161 |||||ATCTCGTGTCTGCCAGGCTGGAGTGCAGTGGCAGATCTGCAAACTCCGCTCTCTGG 2220
Qy 2221 |||||GTTCAAGTAGTCTTCTTCTGCTCAGCCTCCGAGTGCAGTGGGATACAGGACGACACCC 2280
Db 2221 |||||GTTCAAGTAGTCTTCTTCTGCTCAGCCTCCGAGTGCAGTGGGATACAGGACGACACCC 2280
Qy 2281 |||||ACACCTGGCTAAATTTTGTACTTTTAGTAGAGATGGGTTTTACCATGTTGGCCAGCTG 2340
Db 2281 |||||ACACCTGGCTAAATTTTGTACTTTTAGTAGAGATGGGTTTTACCATGTTGGCCAGCTG 2340
Qy 2341 |||||GTCTTGAACCTCCTGACCTCAAAATGAGCTCCTGCTCAGTCTCCCAAATTCGCGGATTA 2400
Db 2341 |||||GTCTTGAACCTCCTGACCTCAAAATGAGCTCCTGCTCAGTCTCCCAAATTCGCGGATTA 2400
Qy 2401 |||||CAGGCATGAGCCACTGTGTCTGGCCCTATTTTCTTTTAAAGTGAAATTAAGAGTTGTT 2460
Db 2401 |||||CAGGCATGAGCCACTGTGTCTGGCCCTATTTTCTTTTAAAGTGAAATTAAGAGTTGTT 2460
Qy 2461 |||||AGTATCCAAAACCTTGAAAGATGGAGAGAAAAGAAAGAAAGAAAGAAAGAAAGTGTCA 2520
Db 2461 |||||AGTATCCAAAACCTTGAAAGATGGAGAGAAAAGAAAGAAAGAAAGAAAGAAAGTGTCA 2520
Qy 2521 |||||TAGTCTCACCAGAGACTATCATTTATTTGTTTTGTTGTTGTTGTTGTTGTTGTTGTT 2580
Db 2521 |||||TAGTCTCACCAGAGACTATCATTTATTTGTTTTGTTGTTGTTGTTGTTGTTGTTGTT 2580
Qy 2581 |||||TTCAATAATTTCCCGGTGTTCTTTTACAGAGCAATATCTTGTATATACAACTTTGTA 2640
Db 2581 |||||TTCAATAATTTCCCGGTGTTCTTTTACAGAGCAATATCTTGTATATACAACTTTGTA 2640
Qy 2641 |||||TCCGTGCTTTTCCACCTTATCGTTCCATCACTTTTCCAGCACTTCTCTGTTTTTACA 2700
Db 2641 |||||TCCGTGCTTTTCCACCTTATCGTTCCATCACTTTTCCAGCACTTCTCTGTTTTTACA 2700
Qy 2701 |||||GACCTTTTATATAATAAATGTTTCATCAGCTGCATAAAAAAGAAAAA 2749
Db 2701 |||||GACCTTTTATATAATAAATGTTTCATCAGCTGCATAAAAAAGAAAAA 2749

RESULT 10

US-09-993-604-516
; Sequence 516, Application US/09993604
; Patent No. US20020137075A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Deenoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.

APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730P1C25
CURRENT APPLICATION NUMBER: US/09/993,604
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827
PRIOR FILING DATE: 1998-06-03
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088025
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088028
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088212
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088217
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088655
PRIOR FILING DATE: 1998-06-09
PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088738
PRIOR FILING DATE: 1998-06-10
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088742
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088810
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088824
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088826
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088861
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088876
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089440
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089512
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089538
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089598
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089599
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089908
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089948
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090252
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090254
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090355
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090431
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090435
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090535
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090540
PRIOR FILING DATE: 1998-06-24

[illegible]

1561 TGATTCTGCGCCCAACCAAGACCCACCAAAACCAATCTCTGGGCTTGGTGAGGACTCTGA 1620
1561 TGATTCTGCGCCCAACCAAGACCCACCAAAACCAATCTCTGGGCTTGGTGAGGACTCTGA 1620
1621 ATTCTAACAAATGCCAGTGTGCTGCGACATGTAGTTGTGAGGGCCAGTGGCCCTGATGAAC 1680
1621 ATTCTAACAAATGCCAGTGTGCTGCGACATGTAGTTGTGAGGGCCAGTGGCCCTGATGAAC 1680
1681 GCTCACACCCCTTTCAGCTTAGAGTGTGCAATTTGGGCTGTGACGTCTCCACCTGCCCAAT 1740
1681 GCTCACACCCCTTTCAGCTTAGAGTGTGCAATTTGGGCTGTGACGTCTCCACCTGCCCAAT 1740
1741 AGATCTGCTGTCTGCTGCGACACAGATCCACGTGGGACTCCCTCGAGGCTCTCTAAGTC 1800
1741 AGATCTGCTGTCTGCTGCGACACAGATCCACGTGGGACTCCCTCGAGGCTCTCTAAGTC 1800
1801 CAGGCTTGGTTCAGGTCAGGTGACATTTGAGGATTAAGCCAGGACCGGCACAGAAAGTGG 1860
1801 CAGGCTTGGTTCAGGTCAGGTGACATTTGAGGATTAAGCCAGGACCGGCACAGAAAGTGG 1860
1861 TTGCTTTTNCATTTGCTTCCCTTCTGCTGCAAGAGGTTTCTTGGCTTTGAAAAAATGATGA 1920
1861 TTGCTTTTNCATTTGCTTCCCTTCTGCTGCAAGAGGTTTCTTGGCTTTGAAAAAATGATGA 1920
1921 GAAAACTTGGCTTCTTCTTCTGCTGCAAGAGGTTTCTTGGCTTTGAAAAAATGATGA 1980
1921 GAAAACTTGGCTTCTTCTTCTGCTGCAAGAGGTTTCTTGGCTTTGAAAAAATGATGA 1980
1981 GAGAGAAAAAGTAGAAAAACAGAGTGCAGTGTGTTCTAAACAGAGGAGAGTAGGAACA 2040
1981 GAGAGAAAAAGTAGAAAAACAGAGTGCAGTGTGTTCTAAACAGAGGAGAGTAGGAACA 2040
2041 GGGCGGATACCTGAAGTGTCTCGAGTCCAGGCTTCCAGGAGGAGGAGGAGGAGGAGGAGG 2100
2041 GGGCGGATACCTGAAGTGTCTCGAGTCCAGGCTTCCAGGAGGAGGAGGAGGAGGAGGAGG 2100
2101 GTAAAGTAGACAACTACTATTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 2160
2101 GTAAAGTAGACAACTACTATTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 2160
2161 ATCTG 2220
2161 ATCTG 2220
2221 GTTCAAGTGTATTTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2280
2221 GTTCAAGTGTATTTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2280
2281 ACACCTGGCTAAATTTTGTACTTTTGTAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2340
2281 ACACCTGGCTAAATTTTGTACTTTTGTAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2340
2341 GTCTTGAACCTCTGACCTCAAAATGAGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2400
2341 GTCTTGAACCTCTGACCTCAAAATGAGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2400
2401 CAGGCTAGCCACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2460
2401 CAGGCTAGCCACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2460
2461 AGTATGCAAACTTTGAAAGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2520
2461 AGTATGCAAACTTTGAAAGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2520
2521 TAGTCTCACCAGACTATCAATTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTG 2580
2521 TAGTCTCACCAGACTATCAATTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTG 2580
2581 TTCACATAATTTGCGGTTCTTTTACAGAGCAATTTATTTGATATATATATATATATATATATAT 2640
2581 TTCACATAATTTGCGGTTCTTTTACAGAGCAATTTATTTGATATATATATATATATATATATAT 2640

2641 TCCTGCTTTTCCACCTTATGCTTCCATCATTTATTTCCAGCACTTCTCTGTGTTTACA 2700
2641 TCCTGCTTTTCCACCTTATGCTTCCATCATTTATTTCCAGCACTTCTCTGTGTTTACA 2700
2701 GACCTTTTATAAATAAATGTTTCATCAGCTGCATATAAAAAA 2749
2701 GACCTTTTATAAATAAATGTTTCATCAGCTGCATATAAAAAA 2749

RESULT 11
US-09-990-456-516
; Sequence 516, Application US/09990456
; Patent No. US20020137890A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC22
; CURRENT APPLICATION NUMBER: US/09/990,456
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088021
; PRIOR FILING DATE: 1998-06-04

1 PRIOR APPLICATION NUMBER: 60/088025
2 PRIOR FILING DATE: 1998-06-04
3 PRIOR APPLICATION NUMBER: 60/088026
4 PRIOR FILING DATE: 1998-06-04
5 PRIOR APPLICATION NUMBER: 60/088028
6 PRIOR FILING DATE: 1998-06-04
7 PRIOR APPLICATION NUMBER: 60/088029
8 PRIOR FILING DATE: 1998-06-04
9 PRIOR APPLICATION NUMBER: 60/088030
10 PRIOR FILING DATE: 1998-06-04
11 PRIOR APPLICATION NUMBER: 60/088033
12 PRIOR FILING DATE: 1998-06-04
13 PRIOR APPLICATION NUMBER: 60/088326
14 PRIOR FILING DATE: 1998-06-04
15 PRIOR APPLICATION NUMBER: 60/088167
16 PRIOR FILING DATE: 1998-06-05
17 PRIOR APPLICATION NUMBER: 60/088202
18 PRIOR FILING DATE: 1998-06-05
19 PRIOR APPLICATION NUMBER: 60/088212
20 PRIOR FILING DATE: 1998-06-05
21 PRIOR APPLICATION NUMBER: 60/088217
22 PRIOR FILING DATE: 1998-06-05
23 PRIOR APPLICATION NUMBER: 60/088655
24 PRIOR FILING DATE: 1998-06-09
25 PRIOR APPLICATION NUMBER: 60/088734
26 PRIOR FILING DATE: 1998-06-10
27 PRIOR APPLICATION NUMBER: 60/088738
28 PRIOR FILING DATE: 1998-06-10
29 PRIOR APPLICATION NUMBER: 60/088742
30 PRIOR FILING DATE: 1998-06-10
31 PRIOR APPLICATION NUMBER: 60/088810
32 PRIOR FILING DATE: 1998-06-10
33 PRIOR APPLICATION NUMBER: 60/088824
34 PRIOR FILING DATE: 1998-06-10
35 PRIOR APPLICATION NUMBER: 60/088826
36 PRIOR FILING DATE: 1998-06-10
37 PRIOR APPLICATION NUMBER: 60/088858
38 PRIOR FILING DATE: 1998-06-11
39 PRIOR APPLICATION NUMBER: 60/088861
40 PRIOR FILING DATE: 1998-06-11
41 PRIOR APPLICATION NUMBER: 60/088876
42 PRIOR FILING DATE: 1998-06-11
43 PRIOR APPLICATION NUMBER: 60/089105
44 PRIOR FILING DATE: 1998-06-12
45 PRIOR APPLICATION NUMBER: 60/089440
46 PRIOR FILING DATE: 1998-06-16
47 PRIOR APPLICATION NUMBER: 60/089512
48 PRIOR FILING DATE: 1998-06-16
49 PRIOR APPLICATION NUMBER: 60/089514
50 PRIOR FILING DATE: 1998-06-16
51 PRIOR APPLICATION NUMBER: 60/089532
52 PRIOR FILING DATE: 1998-06-17
53 PRIOR APPLICATION NUMBER: 60/089538
54 PRIOR FILING DATE: 1998-06-17
55 PRIOR APPLICATION NUMBER: 60/089598
56 PRIOR FILING DATE: 1998-06-17
57 PRIOR APPLICATION NUMBER: 60/089599
58 PRIOR FILING DATE: 1998-06-17
59 PRIOR APPLICATION NUMBER: 60/089600
60 PRIOR FILING DATE: 1998-06-17
61 PRIOR APPLICATION NUMBER: 60/089653
62 PRIOR FILING DATE: 1998-06-17
63 PRIOR APPLICATION NUMBER: 60/089801
64 PRIOR FILING DATE: 1998-06-18
65 PRIOR APPLICATION NUMBER: 60/089907
66 PRIOR FILING DATE: 1998-06-18
67 PRIOR APPLICATION NUMBER: 60/089908
68 PRIOR FILING DATE: 1998-06-18
69 PRIOR APPLICATION NUMBER: 60/089947
70 PRIOR FILING DATE: 1998-06-19
71 PRIOR APPLICATION NUMBER: 60/089948
72 PRIOR FILING DATE: 1998-06-19
73 PRIOR APPLICATION NUMBER: 60/089952

1 PRIOR FILING DATE: 1998-06-19
2 PRIOR APPLICATION NUMBER: 60/090246
3 PRIOR FILING DATE: 1998-06-22
4 PRIOR APPLICATION NUMBER: 60/090252
5 PRIOR FILING DATE: 1998-06-22
6 PRIOR APPLICATION NUMBER: 60/090254
7 PRIOR FILING DATE: 1998-06-22
8 PRIOR APPLICATION NUMBER: 60/090349
9 PRIOR FILING DATE: 1998-06-23
10 PRIOR APPLICATION NUMBER: 60/090355
11 PRIOR FILING DATE: 1998-06-23
12 PRIOR APPLICATION NUMBER: 60/090429
13 PRIOR FILING DATE: 1998-06-24
14 PRIOR APPLICATION NUMBER: 60/090431
15 PRIOR FILING DATE: 1998-06-24
16 PRIOR APPLICATION NUMBER: 60/090435
17 PRIOR FILING DATE: 1998-06-24
18 PRIOR APPLICATION NUMBER: 60/090444
19 PRIOR FILING DATE: 1998-06-24
20 PRIOR APPLICATION NUMBER: 60/090445
21 PRIOR FILING DATE: 1998-06-24
22 PRIOR APPLICATION NUMBER: 60/090472
23 PRIOR FILING DATE: 1998-06-24
24 PRIOR APPLICATION NUMBER: 60/090535
25 PRIOR FILING DATE: 1998-06-24
26 PRIOR APPLICATION NUMBER: 60/090540
27 PRIOR FILING DATE: 1998-06-24
28 PRIOR APPLICATION NUMBER: 60/090542
29 PRIOR FILING DATE: 1998-06-24
30 PRIOR APPLICATION NUMBER: 60/090557
31 PRIOR FILING DATE: 1998-06-24
32 PRIOR APPLICATION NUMBER: 60/090676
33 PRIOR FILING DATE: 1998-06-25
34 PRIOR APPLICATION NUMBER: 60/090678
35 PRIOR FILING DATE: 1998-06-25
36 PRIOR APPLICATION NUMBER: 60/090690
37 PRIOR FILING DATE: 1998-06-25
38 PRIOR APPLICATION NUMBER: 60/090694
39 PRIOR FILING DATE: 1998-06-25
40 PRIOR APPLICATION NUMBER: 60/090695
41 PRIOR FILING DATE: 1998-06-25
42 PRIOR APPLICATION NUMBER: 60/090696
43 PRIOR FILING DATE: 1998-06-25
44 PRIOR APPLICATION NUMBER: 60/090862
45 PRIOR FILING DATE: 1998-06-26
46 PRIOR APPLICATION NUMBER: 60/090863
47 PRIOR FILING DATE: 1998-06-26
48 PRIOR APPLICATION NUMBER: 60/091360
49 PRIOR FILING DATE: 1998-07-01
50 PRIOR APPLICATION NUMBER: 60/091478
51 PRIOR FILING DATE: 1998-07-02
52 PRIOR APPLICATION NUMBER: 60/091544
53 PRIOR FILING DATE: 1998-07-01
54 PRIOR APPLICATION NUMBER: 60/091519
55 PRIOR FILING DATE: 1998-07-02
56 PRIOR APPLICATION NUMBER: 60/091626
57 PRIOR FILING DATE: 1998-07-02
58 PRIOR APPLICATION NUMBER: 60/091633
59 PRIOR FILING DATE: 1998-07-02
60 PRIOR APPLICATION NUMBER: 60/091978
61 PRIOR FILING DATE: 1998-07-07
62 PRIOR APPLICATION NUMBER: 60/091982
63 PRIOR FILING DATE: 1998-07-07
64 PRIOR APPLICATION NUMBER: 60/092182
65 PRIOR FILING DATE: 1998-07-09

Query Match 99.9%; Score 2747; DB 9; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTCACAGGTGTCAGCGCCAGAGTGGCTTCTGGTCTGTATGGGTTGCTGCTG 60
Db 1 CTCACAGGTGTCAGCGCCAGAGTGGCTTCTGGTCTGTATGGGTTGCTGCTG 60


```
; PRIOR APPLICATION NUMBER: 60/089512
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089514
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089532
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089538
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089598
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089599
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089600
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089653
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089907
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089908
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089947
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/089948
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/089952
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/090246
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090252
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090254
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090349
; PRIOR FILING DATE: 1998-06-23
; PRIOR APPLICATION NUMBER: 60/090355
; PRIOR FILING DATE: 1998-06-23
; PRIOR APPLICATION NUMBER: 60/090429
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090431
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090435
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090444
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090445
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090472
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090535
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090540
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090542
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090676
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090678
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090690
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090694
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090695
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090696
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090862
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/090863

; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/091360
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091478
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091519
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091626
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match          99.9%; Score 2747; DB 9; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCCACGGTGTCCAGCGGCCAGAAATGCGGCTTCTGGTCTCTGCTATGGGTTGCTGCTG 60
DB 1 CTCCACGGTGTCCAGCGGCCAGAAATGCGGCTTCTGGTCTCTGCTATGGGTTGCTGCTG 60

QY 61 CTCCACGGTTATGAAGCCCTGAGGGCCAGAGGAAATGCGGGTTGAGGGGACACT 120
DB 61 CTCCACGGTTATGAAGCCCTGAGGGCCAGAGGAAATGCGGGTTGAGGGGACACT 120

QY 121 GTGTCCCTGCAGTGACCTACAGGGAGAGCTGAGGAGACACCGGAAGTACTGTGTCAGG 180
DB 121 GTGTCCCTGCAGTGACCTACAGGGAGAGCTGAGGAGACACCGGAAGTACTGTGTCAGG 180

QY 181 AAGGTTGGGATCCTCTTCTCTGCTGCTCTGGCACCATCTATGACAGAAGAAAGGCCAG 240
DB 181 AAGGTTGGGATCCTCTTCTCTGCTGCTCTGGCACCATCTATGACAGAAGAAAGGCCAG 240

QY 241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCGCCGAGGAGCTCTGCTCATTTG 300
DB 241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCGCCGAGGAGCTCTGCTCATTTG 300

QY 301 ACCCTGTGGAACCTCACTCCCTGCAAGAGCTGTGGGAGTACTGTGGTGTGGGGTCGAAAACGG 360
DB 301 ACCCTGTGGAACCTCACTCCCTGCAAGAGCTGTGGGAGTACTGTGGTGTGGGGTCGAAAACGG 360

QY 361 GGCCCGGATGAGTCTTTTACTGATCTCTCTGTTCTTTTCCAGGACCTGCTGCTCTCC 420
DB 361 GGCCCGGATGAGTCTTTTACTGATCTCTCTGTTCTTTTCCAGGACCTGCTGCTCTCC 420

QY 421 TCCCTTCTCCACCTTCCAGCTCTGGGTAACAAGCGCTGAGCGCCGAGGCAAGGCAAGCT 480
DB 421 TCCCTTCTCCACCTTCCAGCTCTGGGTAACAAGCGCTGAGCGCCGAGGCAAGGCAAGCT 480

QY 481 CAGCAAAACCCAGCCCGGAGTTGACTTCTCTGGGCTCTTACCCGAGCACCACAGCC 540
DB 481 CAGCAAAACCCAGCCCGGAGTTGACTTCTCTGGGCTCTTACCCGAGCACCACAGCC 540

QY 541 AAGCAGGGGAAGACAGGGGCTGAGGCCCCCTCCATTGCGAGGACTTCCAGTAGCGGAC 600
DB 541 AAGCAGGGGAAGACAGGGGCTGAGGCCCCCTCCATTGCGAGGACTTCCAGTAGCGGAC 600

QY 601 GAAAGACTTCTCAGTACACAGGAACCTCTCTCCACCGAGGACCTCTCTCTGAGGG 660
DB 601 GAAAGACTTCTCAGTACACAGGAACCTCTCTCTCCACCGAGGACCTCTCTCTGAGGG 660

QY 661 AGCTCCCGCCCCCATGAGCTGGGACTCCACTCAGCAGGAGGACACCACTCCAGTCTC 720
DB 661 AGCTCCCGCCCCCATGAGCTGGGACTCCACTCAGCAGGAGGACACCACTCCAGTCTC 720

QY 721 AGCAGTGGCAGCTCTAAGCCCGAGGGTGTCCATCCCGATGGTCCGCATACTGTGCCCCAGTC 780
```


APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Geritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630P1C11
CURRENT APPLICATION NUMBER: US/09/978,295A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918595
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/078886
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078936
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078939
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079664
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079689
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079920
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/079923
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/080105
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080107
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080165
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080194
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080327
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080328
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080333
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080334
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/081070
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081071
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081195
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081955
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081817
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081819
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081952
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081838
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082568
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082569
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082704
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082804
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082700
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082797
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082796
PRIOR FILING DATE: 1998-04-23
PRIOR APPLICATION NUMBER: 60/083336
PRIOR FILING DATE: 1998-04-27
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083392
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083496
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083499
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083545
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083554
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083558
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083559

[illegible]

1441 TTAGTCCCAAGGCTCTCTGATCAGCTGGTGTGATGAAGAGAGAGCATGCTGGGGTGAGACTG 1500
1441 TTAGTCCCAAGGCTCTCTGATCAGCTGGTGTGATGAAGAGAGAGCATGCTGGGGTGAGACTG 1500
1501 GGATTCGGCTTCTCTTTGAACACACCTGCAATCAGAGCCCTTCAGGAAGCCCTGTGAAAAACG 1560
1501 GGATTCGGCTTCTCTTTGAACACACCTGCAATCAGAGCCCTTCAGGAAGCCCTGTGAAAAACG 1560
1561 TGATTCCTGGCCCCCACCAGAGCCACCAAAACCATCTCTGGGCTTGGTGAGAGCTCTGA 1620
1561 TGATTCCTGGCCCCCACCAGAGCCACCAAAACCATCTCTGGGCTTGGTGAGAGCTCTGA 1620
1621 ATTCTAACATGCCCCAGTGAATCTGCGACCTTGAGTGTGAGGGCCAGTGGGCCCTGTGTAAC 1680
1621 ATTCTAACATGCCCCAGTGAATCTGCGACCTTGAGTGTGAGGGCCAGTGGGCCCTGTGTAAC 1680
1681 GCTCACACCCCTTCAGCTTAGAGTCTGCAATTTGGGCTGTGACGTCTCCACCTGCCCAAT 1740
1681 GCTCACACCCCTTCAGCTTAGAGTCTGCAATTTGGGCTGTGACGTCTCCACCTGCCCAAT 1740
1741 AGATCTGCTCTGCTGGACACAGATCCACGTGGGACTCCCTCAGGCTCTGAAGTC 1800
1741 AGATCTGCTCTGCTGGACACAGATCCACGTGGGACTCCCTCAGGCTCTGAAGTC 1800
1801 CAGGCTTGGTCAGGTGAGTGCACATTCAGGATAGCCAGGACCGGCAGGACCGGCAGGAGTGG 1860
1801 CAGGCTTGGTCAGGTGAGTGCACATTCAGGATAGCCAGGACCGGCAGGACCGGCAGGAGTGG 1860
1861 TTGCCCTTNCATTTGCCCTCCCTGNCACATGCTTCTGCTTTGGAAAAATGATGAA 1920
1861 TTGCCCTTNCATTTGCCCTCCCTGNCACATGCTTCTGCTTTGGAAAAATGATGAA 1920
1921 GAAAACTTGGCTCTCTCTGCTGGAAGGGTACTTGGCTATGGTTCGTGGCTA 1980
1921 GAAAACTTGGCTCTCTCTGCTGGAAGGGTACTTGGCTATGGTTCGTGGCTA 1980
1981 GAGAGAAAGTAGAAACACAGATGACGTAGTGTCTAACACAGAGGAGTAGGAACA 2040
1981 GAGAGAAAGTAGAAACACAGATGACGTAGTGTCTAACACAGAGGAGTAGGAACA 2040
2041 GGGCGGATACCTGAAGTGAATCCGAGTCCAGCCCTCGAGAGGGGTGGGGGTGGT 2100
2041 GGGCGGATACCTGAAGTGAATCCGAGTCCAGCCCTCGAGAGGGGTGGGGGTGGT 2100
2101 GTAAAGTAGCAACTACTATTTTCTTTTCCATTTATTTCTTTTAAAGCAGA 2160
2101 GTAAAGTAGCAACTACTATTTTCTTTTCCATTTATTTCTTTTAAAGCAGA 2160
2161 ATCTGCTGCTGCTGCCAGGCTGGAGTGCAGTGCAGATCTGCAAACTCCGCTCTCTGG 2220
2161 ATCTGCTGCTGCTGCCAGGCTGGAGTGCAGTGCAGATCTGCAAACTCCGCTCTCTGG 2220
2221 GTTCAAGTGAATCTCTGCTCAGCTCCGAGTGTGGGATTTACAGGACGACCAACC 2280
2221 GTTCAAGTGAATCTCTGCTCAGCTCCGAGTGTGGGATTTACAGGACGACCAACC 2280
2281 ACACCTGGCTAAATTTTGTACTTTTAGTAGAGTGGGTTTCCACATGTTGGCCAGGCTG 2340
2281 ACACCTGGCTAAATTTTGTACTTTTAGTAGAGTGGGTTTCCACATGTTGGCCAGGCTG 2340
2341 GTCTTGAACCTCCTGACCTCAAAAGAGCTCTGCTTCCAGTCTCCCAATTTCCGGGATTA 2400
2341 GTCTTGAACCTCCTGACCTCAAAAGAGCTCTGCTTCCAGTCTCCCAATTTCCGGGATTA 2400
2401 CAGGATGAGCCACTGTGTCTGGCCCTATTTCTTTAAAAAGTGAATTAAGAGTGTTC 2460
2401 CAGGATGAGCCACTGTGTCTGGCCCTATTTCTTTAAAAAGTGAATTAAGAGTGTTC 2460
2461 AGTATGAAAACTTGGAAAGATGAGAGAGAAAAAGAAAGAAAAATGTCACCCA 2520
2461 AGTATGAAAACTTGGAAAGATGAGAGAGAAAAAGAAAGAAAAATGTCACCCA 2520

2521 TAGTCTCACCAGAGACTATCATTAATTCGTTTGTGTACTTCTTCCACTCTTTCTTC 2580
2521 TAGTCTCACCAGAGACTATCATTAATTCGTTTGTGTACTTCTTCCACTCTTTCTTC 2580
2581 TTCACATAATTTGCGGGTGTCTTTTACAGAGCAATTAATCTGTATATACAACTTTGTA 2640
2581 TTCACATAATTTGCGGGTGTCTTTTACAGAGCAATTAATCTGTATATACAACTTTGTA 2640
2641 TCTGCTCTTTTCCACCTTATCGTTCCATCACTTTATTCAGCACTTCTCTGTGTTTACA 2700
2641 TCTGCTCTTTTCCACCTTATCGTTCCATCACTTTATTCAGCACTTCTCTGTGTTTACA 2700
2701 GACCTTTTATATAATAAATGTTTCATCAGCTGCATATAAAAAA 2749
2701 GACCTTTTATATAATAAATGTTTCATCAGCTGCATATAAAAAA 2749

RESULT 14

US-09-992-598-516
; Sequence 516, Application US/09992598
; Patent No. US20020160384A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gottlieb, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C20
; CURRENT FILING DATE: 2001-11-14
; PRIOR FILING DATE: 1997-06-16
; PRIOR FILING DATE: 1997-10-17
; PRIOR FILING DATE: 1997-11-12
; PRIOR FILING DATE: 1997-11-13
; PRIOR FILING DATE: 1997-11-24
; PRIOR FILING DATE: 1998-02-25
; PRIOR FILING DATE: 1998-03-20
; PRIOR FILING DATE: 1998-04-28
; PRIOR FILING DATE: 1998-05-07
; PRIOR FILING DATE: 1998-05-28
; PRIOR FILING DATE: 1998-06-02

1	PRIOR FILING DATE: 1998-06-18
2	PRIOR APPLICATION NUMBER: 60/089908
3	PRIOR FILING DATE: 1998-06-18
4	PRIOR APPLICATION NUMBER: 60/089947
5	PRIOR FILING DATE: 1998-06-19
6	PRIOR APPLICATION NUMBER: 60/089948
7	PRIOR FILING DATE: 1998-06-19
8	PRIOR APPLICATION NUMBER: 60/089952
9	PRIOR FILING DATE: 1998-06-19
10	PRIOR APPLICATION NUMBER: 60/090246
11	PRIOR FILING DATE: 1998-06-22
12	PRIOR APPLICATION NUMBER: 60/090252
13	PRIOR FILING DATE: 1998-06-22
14	PRIOR APPLICATION NUMBER: 60/090254
15	PRIOR FILING DATE: 1998-06-22
16	PRIOR APPLICATION NUMBER: 60/090349
17	PRIOR FILING DATE: 1998-06-23
18	PRIOR APPLICATION NUMBER: 60/090355
19	PRIOR FILING DATE: 1998-06-23
20	PRIOR APPLICATION NUMBER: 60/090429
21	PRIOR FILING DATE: 1998-06-24
22	PRIOR APPLICATION NUMBER: 60/090431
23	PRIOR FILING DATE: 1998-06-24
24	PRIOR APPLICATION NUMBER: 60/090435
25	PRIOR FILING DATE: 1998-06-24
26	PRIOR APPLICATION NUMBER: 60/090444
27	PRIOR FILING DATE: 1998-06-24
28	PRIOR APPLICATION NUMBER: 60/090445
29	PRIOR FILING DATE: 1998-06-24
30	PRIOR APPLICATION NUMBER: 60/090472
31	PRIOR FILING DATE: 1998-06-24
32	PRIOR APPLICATION NUMBER: 60/090535
33	PRIOR FILING DATE: 1998-06-24
34	PRIOR APPLICATION NUMBER: 60/090540
35	PRIOR FILING DATE: 1998-06-24
36	PRIOR APPLICATION NUMBER: 60/090542
37	PRIOR FILING DATE: 1998-06-24
38	PRIOR APPLICATION NUMBER: 60/090557
39	PRIOR FILING DATE: 1998-06-24
40	PRIOR APPLICATION NUMBER: 60/090676
41	PRIOR FILING DATE: 1998-06-25
42	PRIOR APPLICATION NUMBER: 60/090678
43	PRIOR FILING DATE: 1998-06-25
44	PRIOR APPLICATION NUMBER: 60/090690
45	PRIOR FILING DATE: 1998-06-25
46	PRIOR APPLICATION NUMBER: 60/090694
47	PRIOR FILING DATE: 1998-06-25
48	PRIOR APPLICATION NUMBER: 60/090695
49	PRIOR FILING DATE: 1998-06-25
50	PRIOR APPLICATION NUMBER: 60/090696
51	PRIOR FILING DATE: 1998-06-25
52	PRIOR APPLICATION NUMBER: 60/090862
53	PRIOR FILING DATE: 1998-06-26
54	PRIOR APPLICATION NUMBER: 60/090863
55	PRIOR FILING DATE: 1998-06-26
56	PRIOR APPLICATION NUMBER: 60/091360
57	PRIOR FILING DATE: 1998-07-01
58	PRIOR APPLICATION NUMBER: 60/091478
59	PRIOR FILING DATE: 1998-07-02
60	PRIOR APPLICATION NUMBER: 60/091544
61	PRIOR FILING DATE: 1998-07-01
62	PRIOR APPLICATION NUMBER: 60/091519
63	PRIOR FILING DATE: 1998-07-02
64	PRIOR APPLICATION NUMBER: 60/091626
65	PRIOR FILING DATE: 1998-07-02
66	PRIOR APPLICATION NUMBER: 60/091633
67	PRIOR FILING DATE: 1998-07-02
68	PRIOR APPLICATION NUMBER: 60/091978
69	PRIOR FILING DATE: 1998-07-07
70	PRIOR APPLICATION NUMBER: 60/091982
71	PRIOR FILING DATE: 1998-07-07
72	PRIOR APPLICATION NUMBER: 60/092182
73	PRIOR FILING DATE: 1998-07-09

2101	Db	GTAAAGTAGACAACACTACTATTTTCTTTTCCATTATATGTTTTTTTAAGACAGA	2160
2161	Qy	ATCTCGTGCTGCTGCCAGGCTGGAGTGCAGTGCGACGATCTGCAACTCCGCTCTCTGG	2220
2161	Db	ATCTCGTGCTGCTGCCAGGCTGGAGTGCAGTGCGACGATCTGCMAACTCGGCTCTCTGG	2220
2221	Qy	GTTTCAGTGTATCTTCTGCTCAGCTCCGAGTGTAGTGGGATACAGGCACGACCAACC	2280
2221	Db	GTTTCAGTGTATCTTCTGCTCAGCTCCGAGTGTAGTGGGATACAGGCACGACCAACC	2280
2281	Qy	ACACCTGGCTAAATTTTTGTACTTTTTAGTAGAGATGGGGTTTTCACCATGTGTGGCGCAGCTG	2340
2281	Db	ACACCTGGCTAAATTTTTGTACTTTTTAGTAGAGATGGGGTTTTCACCATGTGTGGCGCAGCTG	2340
2341	Qy	GTCTTGAACCTCTGACCTCAANTGAGGCTCTGCTTCAGTCTCCCAATTTGCCGGGATTA	2400
2341	Db	GTCTTGAACCTCTGACCTCAANTGAGGCTCTGCTTCAGTCTCCCAATTTGCCGGGATTA	2400
2401	Qy	CAGGCATGAGCCACTGTGTCTGGGCCCTATTTCTTTAAAAAGTGAATTAAGAGTTGTTC	2460
2401	Db	CAGGCATGAGCCACTGTGTCTGGGCCCTATTTCTTTAAAAAGTGAATTAAGAGTTGTTC	2460
2461	Qy	AGTATGCAAAACCTTTGGAAAGATGGAGAGAGAAAAGAAAAGGAGAAAAAATGTCACCCA	2520
2461	Db	AGTATGCAAAACCTTTGGAAAGATGGAGAGAGAAAAGAAAAGGAGAAAAAATGTCACCCA	2520
2521	Qy	TAGTCTCACCAGAGACTATCATTAATTTCTGTTTTGTGTACTCTCTTCACACTCTTTTCTTC	2580
2521	Db	TAGTCTCACCAGAGACTATCATTAATTTCTGTTTTGTGTACTCTCTTCACACTCTTTTCTTC	2580
2581	Qy	TTCAACAATAATTTGCCGGTGTTCTTTTTCACAGAGCAATATCTTGTATPATACAACTTGTGA	2640
2581	Db	TTCAACAATAATTTGCCGGTGTTCTTTTTCACAGAGCAATATCTTGTATPATACAACTTGTGA	2640
2641	Qy	TCTTGCCCTTTTCCACCTTATCGTTTCCATCACTTTATTCAGACACTCTCTGCTGTTTTACA	2700
2641	Db	TCTTGCCCTTTTCCACCTTATCGTTTCCATCACTTTATTCAGACACTCTCTGCTGTTTTACA	2700
2701	Qy	GACCTTTTTATAAATAAAATGTTTCATCAGCTGCATAAAAAATAAAAAA	2749
2701	Db	GACCTTTTTATAAATAAAATGTTTCATCAGCTGCATAAAAAATAAAAAA	2749

RESULT 15

US-09-978-697-215
: Sequence 215. Application IIS/09978697

03-V3-378-037-213
: Sequence 215. Application US/09978697

: Sequence 213, Application
: Patent No. US20020169284A1

;; PATENT NO. US20020161111
: GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi

APPLICANT: Baker Kevin P

; APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan

APPLICANT: Ferrara. Napoleon

APPLICANT: Filvaroff, Ellen

APPLICANT: Fong, Sherman

APPLICANT: Gao, Wei-Qiang

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Hillan, Kenneth J

APPLICANT: Kljavin, Ivar J.

APPLICANT: Kuo, Sophia S.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James;

APPLICANT: Paoni, Nicholas F.

APPLICANT: ROY, Margaret Ann

APPLICANT: Shelton, David L.

; APPLICANT: Stewart, Timothy A.

```
/ PRIOR FILING DATE: 1998-04-08
/ PRIOR APPLICATION NUMBER: 60/081049
/ PRIOR FILING DATE: 1998-04-08
/ PRIOR APPLICATION NUMBER: 60/081071
/ PRIOR FILING DATE: 1998-04-08
/ PRIOR APPLICATION NUMBER: 60/081195
/ PRIOR FILING DATE: 1998-04-08
/ PRIOR APPLICATION NUMBER: 60/081203
/ PRIOR FILING DATE: 1998-04-09
/ PRIOR APPLICATION NUMBER: 60/081229
/ PRIOR FILING DATE: 1998-04-09
/ PRIOR APPLICATION NUMBER: 60/081955
/ PRIOR FILING DATE: 1998-04-15
/ PRIOR APPLICATION NUMBER: 60/081817
/ PRIOR FILING DATE: 1998-04-15
/ PRIOR APPLICATION NUMBER: 60/081819
/ PRIOR FILING DATE: 1998-04-15
/ PRIOR APPLICATION NUMBER: 60/081952
/ PRIOR FILING DATE: 1998-04-15
/ PRIOR APPLICATION NUMBER: 60/081838
/ PRIOR FILING DATE: 1998-04-15
/ PRIOR APPLICATION NUMBER: 60/082568
/ PRIOR FILING DATE: 1998-04-21
/ PRIOR APPLICATION NUMBER: 60/082569
/ PRIOR FILING DATE: 1998-04-21
/ PRIOR APPLICATION NUMBER: 60/082704
/ PRIOR FILING DATE: 1998-04-22
/ PRIOR APPLICATION NUMBER: 60/082804
/ PRIOR FILING DATE: 1998-04-22
/ PRIOR APPLICATION NUMBER: 60/082700
/ PRIOR FILING DATE: 1998-04-22
/ PRIOR APPLICATION NUMBER: 60/082797
/ PRIOR FILING DATE: 1998-04-22
/ PRIOR APPLICATION NUMBER: 60/082796
/ PRIOR FILING DATE: 1998-04-23
/ PRIOR APPLICATION NUMBER: 60/083336
/ PRIOR FILING DATE: 1998-04-27
/ PRIOR APPLICATION NUMBER: 60/083322
/ PRIOR FILING DATE: 1998-04-28
/ PRIOR APPLICATION NUMBER: 60/083392
/ PRIOR FILING DATE: 1998-04-29
/ PRIOR APPLICATION NUMBER: 60/083495
/ PRIOR FILING DATE: 1998-04-29
/ PRIOR APPLICATION NUMBER: 60/083496
/ PRIOR FILING DATE: 1998-04-29
/ PRIOR APPLICATION NUMBER: 60/083499
/ PRIOR FILING DATE: 1998-04-29
/ PRIOR APPLICATION NUMBER: 60/083545
/ PRIOR FILING DATE: 1998-04-29
/ PRIOR APPLICATION NUMBER: 60/083554
/ PRIOR FILING DATE: 1998-04-29
/ PRIOR APPLICATION NUMBER: 60/083558
/ PRIOR FILING DATE: 1998-04-29
/ PRIOR APPLICATION NUMBER: 60/083559
/ PRIOR FILING DATE: 1998-04-29
/ PRIOR APPLICATION NUMBER: 60/083500
/ PRIOR FILING DATE: 1998-04-29
/ PRIOR APPLICATION NUMBER: 60/083742
/ PRIOR FILING DATE: 1998-04-30
/ PRIOR APPLICATION NUMBER: 60/084366
/ PRIOR FILING DATE: 1998-05-05
/ PRIOR APPLICATION NUMBER: 60/084414
/ PRIOR FILING DATE: 1998-05-06
/ PRIOR APPLICATION NUMBER: 60/084441
/ PRIOR FILING DATE: 1998-05-06
/ PRIOR APPLICATION NUMBER: 60/084637
/ PRIOR FILING DATE: 1998-05-07
/ PRIOR APPLICATION NUMBER: 60/084639
/ PRIOR FILING DATE: 1998-05-07
/ PRIOR APPLICATION NUMBER: 60/084640
/ PRIOR FILING DATE: 1998-05-07
/ PRIOR APPLICATION NUMBER: 60/084598
/ PRIOR FILING DATE: 1998-05-07

/ PRIOR APPLICATION NUMBER: 60/084600
/ PRIOR FILING DATE: 1998-5-07
/ PRIOR APPLICATION NUMBER: 60/084627
/ PRIOR FILING DATE: 1998-05-07
/ PRIOR APPLICATION NUMBER: 60/084643
/ PRIOR FILING DATE: 1998-05-07
/ PRIOR APPLICATION NUMBER: 60/085339
/ PRIOR FILING DATE: 1998-05-13
/ PRIOR APPLICATION NUMBER: 60/085338
/ PRIOR FILING DATE: 1998-05-13
/ PRIOR APPLICATION NUMBER: 60/085323
/ PRIOR FILING DATE: 1998-05-13
/ PRIOR APPLICATION NUMBER: 60/085582
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085700
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085689
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085579
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085580
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085573
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085704
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085697

Query Match 99.9%; Score 2747; DB 9; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCCACGGTTCACGCGCCAGAAATGCGGCTTCTGGTCTGTCTGTATGGGGTTGCCCTGCTG 60
Db 1 CTCCACGGTTCACGCGCCAGAAATGCGGCTTCTGGTCTGTCTGTATGGGGTTGCCCTGCTG 60
QY 61 CTCCACGGTTATGAAGCCCTTGAGGGCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120
Db 61 CTCCACGGTTATGAAGCCCTTGAGGGCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120
QY 121 GTGTCCCTGCAGTGCACCTACAGGGAGAGCTGAGGGACACCGGAGTACTTGGTGCAGG 180
Db 121 GTGTCCCTGCAGTGCACCTACAGGGAGAGCTGAGGGACACCGGAGTACTTGGTGCAGG 180
QY 181 AAGGTGGGATCTCTTCTCTGCTCTGGCACCATTCTATGCAGAGAGAGGAGCCAG 240
Db 181 AAGGTGGGATCTCTTCTCTGCTCTGGCACCATTCTATGCAGAGAGAGGAGCCAG 240
QY 241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCGCAGGAGCTCTCGCTCATTTGTG 300
Db 241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCGCAGGAGCTCTCGCTCATTTGTG 300
QY 301 ACCTGTGAACTCACTCCCTGCAGAGCTGGGGAGTACTGGTGTGGGGTTCGAAAAACGG 360
Db 301 ACCTGTGAACTCACTCCCTGCAGAGCTGGGGAGTACTGGTGTGGGGTTCGAAAAACGG 360
QY 361 GGCCCGGATGAGTCTTTTACTGATCTCTGTGTTCTCTTCCAGGACCTGTCTCTCTCCC 420
Db 361 GGCCCGGATGAGTCTTTTACTGATCTCTGTGTTCTCTTCCAGGACCTGTCTCTCTCCC 420
QY 421 TCCCTTTCTCCACCTTCCAGGCTCTGGGTACAAACGCGCTGAGCCCAAGGCAAAAGCT 480
Db 421 TCCCTTTCTCCACCTTCCAGGCTCTGGGTACAAACGCGCTGAGCCCAAGGCAAAAGCT 480
QY 481 CAGCAAAACCGAGCCCGCAGGATTTACTTCTCTGGGCTCTACCCGCGAGCCACACAGCC 540
Db 481 CAGCAAAACCGAGCCCGCAGGATTTACTTCTCTGGGCTCTACCCGCGAGCCACACAGCC 540
QY 541 AAGCAGGGGAGACAGGGGCTGAGGGCCCTCCATTCCAGGGGACTTCCCAAGTACGGGCAC 600
Db 541 AAGCAGGGGAGACAGGGGCTGAGGGCCCTCCATTCCAGGGGACTTCCCAAGTACGGGCAC 600
QY 601 GAAAGGACTTCTCAGTACACAGGAACCTCTCTCTCACCCAGCGACCTCTCTCTCTGCGGG 660
```

601	Db	GAAGAAGCTTCTCAGTACACAGGAACCTCTCCTCACCCAGCGACCTCTCCTCTCGCAGGG	660
661	QY	AGCTCCCGCCCCCATCAGCTGGACTTCCACTCTCAGCAGAGGACACCAAGTCACAGCTCTC	720
661	Db	AGTCCCGCCCCCATCAGCTGGACTTCCACTCTCAGCAGAGGACACCAAGTCACAGCTCTC	720
721	QY	AGCAGTGGCAGCTCTAAAGCCACAGGGTGTCCATCCCGATGTCTCGCATATCTGGCCCCCAGTC	780
721	Db	AGCAGTGGCAGCTCTAAAGCCACAGGGTGTCCATCCCGATGTCTCGCATATCTGGCCCCCAGTC	780
781	QY	CTGGTGTCTGAGCCCTTCTGTACGCCGACAGGCTGTATCGCCTTCTGCAGCGCACTGTCTC	840
781	Db	CTGGTGTCTGAGCCCTTCTGTACGCCGACAGGCTGTATCGCCTTCTGCAGCGCACTGTCTC	840
841	QY	CTGTGGAGAAAGGAAGCTCAACAGGCCACCGAGACACAGAGGAACAGAGAAGTTCTTGCGTC	900
841	Db	CTGTGGAGAAAGGAAGCTCAACAGGCCACCGAGACACAGAGGAACAGAGAAGTTCTTGCGTC	900
901	QY	TCACGCTTGACTGCGGAGGAAAAAGGAAGCCCTTCCAGCCCTCTGAGGGGACGTGATC	960
901	Db	TCACGCTTGACTGCGGAGGAAAAAGGAAGCCCTTCCAGCCCTCTGAGGGGACGTGATC	960
961	QY	TCGATGCTCCCTTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTGTCTCAGCG	1020
961	Db	TCGATGCTCCCTTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTGTCTCAGCG	1020
1021	QY	TAGGGCAGGAGGCCCTCTCGCCACAGGCCACGACAGTGAAGCAGTAGTGGCTGGCTCGATCAGC	1080
1021	Db	TAGGGCAGGAGGCCCTCTCGCCACAGGCCACGACAGTGAAGCAGTAGTGGCTGGCTCGATCAGC	1080
1081	QY	ACCGATTCCCGAAGCTTTCCACCTCAGCCTCAGAGTCCAGCTGCCCGACTCCAGGGCT	1140
1081	Db	ACCGATTCCCGAAGCTTTCCACCTCAGCCTCAGAGTCCAGCTGCCCGACTCCAGGGCT	1140
1141	QY	CTCCCAACCTCCCGAGGCTCTCCTCTTGTCATGTTCCAGCTGACCTAGAAAGCGTTTGTCTC	1200
1141	Db	CTCCCAACCTCCCGAGGCTCTCCTCTTGTCATGTTCCAGCTGACCTAGAAAGCGTTTGTCTC	1200
1201	QY	AGCCCTGGAGCCACAGAGCGGTGGCTTGTCTTCGGCTGAGACTGGGACATCCCTGAT	1260
1201	Db	AGCCCTGGAGCCACAGAGCGGTGGCTTGTCTTCGGCTGAGACTGGGACATCCCTGAT	1260
1261	QY	AGGTTCACTCCCTGGGCAGAGTACCAAGGCTGTGTGACCTTCAGCAGGGCCACAGCAAGGCT	1320
1261	Db	AGGTTCACTCCCTGGGCAGAGTACCAAGGCTGTGTGACCTTCAGCAGGGCCACAGCAAGGCT	1320
1321	QY	CAGTGAATCTGGTCTGAGTTTCAATCTGCAGGAACTCTCTGGGCTCATGCCCAAGTGTCTG	1380
1321	Db	CAGTGAATCTGGTCTGAGTTTCAATCTGCAGGAACTCTCTGGGCTCATGCCCAAGTGTCTG	1380
1381	QY	GACCTCGCTTCTCCACACTCCAGACCCCACTTGTCTTCCCTCCCTGGCGCTCCTCAGAC	1440
1381	Db	GACCTCGCTTCTCCACACTCCAGACCCCACTTGTCTTCCCTCCCTGGCGCTCCTCAGAC	1440
1441	QY	TTAGTCCCAAGCTCTCCTGTCATCAGCTGTGTGATGAAGAGGAGCATGCTGGGGTGAGACTG	1500
1441	Db	TTAGTCCCAAGCTCTCCTGTCATCAGCTGTGTGATGAAGAGGAGCATGCTGGGGTGAGACTG	1500
1501	QY	GGATTCTGGGTTCTCTTTTGAACCACTGTGCATCCAGCCCTTCAGGAAGCTGTGAAAAACG	1560
1501	Db	GGATTCTGGGTTCTCTTTTGAACCACTGTGCATCCAGCCCTTCAGGAAGCTGTGAAAAACG	1560
1561	QY	TGATTCTGGCCCCCACAGACCCCAAAAACCATCTCTGGGCTTGGTCAGGACCTCTGA	1620
1561	Db	TGATTCTGGCCCCCACAGACCCCAAAAACCATCTCTGGGCTTGGTCAGGACCTCTGA	1620
1621	QY	ATTCTAACAAATGCCAGTGAAGTGTGACACTTGAGTTTGAGGGCCAGTGGGCCCTGATGAAC	1680
1621	Db	ATTCTAACAAATGCCAGTGAAGTGTGACACTTGAGTTTGAGGGCCAGTGGGCCCTGATGAAC	1680
1681	QY	GCTCACAACCCCTTCAGCTTAGAGTCTGCAATTTGGGCTGTGACGCTCTCCACTGCCCAAT	1740

Search completed: September 13, 2004, 19:40:07
Job time : 1288 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: September 13, 2004, 14:10:01 ; Search time 6221 Seconds
(without alignments)
13195.810 Million cell updates/sec

Title: US-10-017-081A-215

Perfect score: 2749

Sequence: 1 cttccacggtgtccagccg.....ctgcataaaaaaaaaa 2749

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 27513289 seqs, 14931090276 residues

Total number of hits satisfying chosen parameters: 55026578

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1500 summaries

Database :

EST:*

1: em_estba:*

2: em_esthum:*

3: em_estin:*

4: em_estmu:*

5: em_estov:*

6: em_estpl:*

7: em_estro:*

8: em_htc:*

9: gb_est1:*

10: gb_est2:*

11: gb_hc:*

12: gb_est3:*

13: gb_est4:*

14: gb_est5:*

15: em_estfun:*

16: em_estcom:*

17: em_gss_hum:*

18: em_gss_inv:*

19: em_gss_pln:*

20: em_gss_vrt:*

21: em_gss_fun:*

22: em_gss_man:*

23: em_gss_mus:*

24: em_gss_pro:*

25: em_gss_rod:*

26: em_gss_phg:*

27: em_gss_vrl:*

28: gb_gss1:*

29: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	674.8	24.5	830	14	CB997121
2	653	23.8	667	9	AL042492
3	564.6	20.5	629	12	BG723031
4	560.8	20.4	617	14	U70073

5	543.2	19.8	686	12	BG546890
6	462.8	16.8	493	13	BX280256
7	417.4	15.2	644	14	CB555136
8	414.2	15.1	438	13	BX102384
9	409	14.9	1201	13	BX356362
10	408.4	14.9	416	14	F22780
11	401.4	14.6	893	14	CF994396
12	384.2	14.0	1195	14	CF994398
13	383	13.9	1668	11	AK037204
14	373.6	13.6	597	14	CB555008
15	361.6	13.2	1749	11	AK052816
16	356	13.0	696	12	BI465150
17	343	12.5	547	12	BI057838
18	341.2	12.4	354	9	AI208121
19	302.4	11.0	487	12	BI058217
20	265.6	9.7	449	12	BI057366
21	253.4	9.2	338	14	Z25191
22	247.8	9.0	631	10	BB661765
23	242	8.8	668	10	BB613441
24	242	8.8	674	13	BY751215
25	242	8.8	2310	11	AK009375
26	235.4	8.6	662	10	BB630327
27	228.6	8.3	814	12	BG867941
28	226.6	8.2	381	10	BB844052
29	222	8.1	228	14	Z28836
30	220.2	8.0	672	12	BI693267
31	218	7.9	4125	11	BC028413
32	217.6	7.9	457	28	AQ030088
33	216.4	7.9	654	29	AG087678
34	214.8	7.8	587	9	AV596236
35	214.6	7.8	370	13	BY336615
36	214.2	7.8	474	10	BF605638
37	213.8	7.8	369	13	BUS36852
38	213.4	7.8	749	14	CB962143
39	212.6	7.7	564	28	AQ607196
40	212.6	7.7	640	14	CF128614
41	212.6	7.7	910	13	BUS50247
42	212.6	7.7	915	13	BU149187
43	212.6	7.7	924	12	BG697612
44	212.4	7.7	461	13	BQ934896
45	212.4	7.7	504	28	BH152879
46	212.4	7.7	642	28	B59854
47	212.4	7.7	648	28	BZ611349
48	212.2	7.7	645	14	CK001378
49	212.2	7.7	1201	13	BX402079
50	212	7.7	467	12	BG759692
51	212	7.7	567	12	BE749669
52	212	7.7	581	12	BI898476
53	211.8	7.7	437	28	AQ774179
54	211.8	7.7	629	13	BX507857
55	211.8	7.7	716	29	AG101592
56	211.6	7.7	521	10	AW970571
57	211.6	7.7	558	12	BW710116
58	211.6	7.7	759	13	BQ436286
59	211.4	7.7	1201	9	AL524675
60	211.2	7.7	544	13	BX113557
61	211	7.7	526	10	BE069140
62	211	7.7	619	13	BX487254
63	210.8	7.7	416	28	AQ140695
64	210.6	7.7	808	28	BZ611126
65	210.4	7.7	447	13	BX489032
66	210.4	7.7	711	28	AQ415030
67	210	7.6	460	28	AQ003866
68	210	7.6	556	28	AQ800806
69	209.8	7.6	590	28	AQ588588
70	209.6	7.6	352	10	BF804385
71	209.6	7.6	688	29	AG118999
72	209.6	7.6	862	13	BX456640
73	209.6	7.6	917	14	CD558585
74	209.6	7.6	946	12	BG335756
75	209.4	7.6	341	13	BU601759
76	209.4	7.6	917	13	BU153359
77	209.4	7.6	1035	13	BQ217751

C 78 209.4 7.6 3491 11 BC039100 Homo sapi
C 79 209.2 7.6 416 14 CD520893 AGENCOURT
C 80 209.2 7.6 429 18 AQ090219 HS 3009 A
C 81 209 7.6 519 28 AQ427907 CITBI-EI-
C 82 208.8 7.6 660 12 BM23453 K-EST0094
C 83 208.8 7.6 676 13 BU685838 UI-CF-DUI
C 84 208.6 7.6 675 28 AQ587429 CITBI-EI-
C 85 208.6 7.6 624 10 BF854308 MR2-RN009
C 86 208.4 7.6 452 14 CD2328203 ENPAC06
C 87 208.4 7.6 636 28 B15692 34SN8.TP CI
C 88 208.4 7.6 636 28 AQ266645 RPCI11-74
C 89 208.4 7.6 689 29 AG117797 Pan trogl
C 90 208.4 7.6 694 14 CF124970 UI-HF-EL0
C 91 208.4 7.6 900 13 BQ222242 AGENCOURT
C 92 208.2 7.6 580 13 BU680637 UI-CF-DUI
C 93 208.2 7.6 581 14 CF890754 UI-CF-DUI
C 94 208 7.6 546 28 AQ394221 CITBI-EI-
C 95 208 7.6 588 13 BX488003 DKF2P686H
C 96 208 7.6 663 9 AV713052 AV713052
C 97 208 7.6 782 12 BG743198 602634360
C 98 207.8 7.6 409 28 AQ129174 HS 3039 A
C 99 207.8 7.6 570 13 BU086265 1J20604.Y
C 100 207.8 7.6 644 28 AZ520273 RPCI-11-1
C 101 207.6 7.6 461 9 AI343144 tB02908.X
C 102 207.6 7.6 639 28 AQ377619 RPCI11-16
C 103 207.6 7.6 751 28 AQ788367 HS 3135 A
C 104 207.6 7.5 429 9 AI539822 tP57C04.X
C 105 207.4 7.5 506 12 BM999650 UI-H-DIO-
C 106 207.2 7.5 365 13 BX338634 BY338634
C 107 207.2 7.5 583 14 CF886972 UI-CF-DUI
C 108 207 7.5 782 12 BG741134 602631696
C 109 206.8 7.5 318 13 BU531754 AGENCOURT
C 110 206.6 7.5 550 28 AQ082524 RPCI11-56
C 111 206.6 7.5 708 29 AG167958 Pan trogl
C 112 206.6 7.5 1201 13 BX357932 EX357932
C 113 206.4 7.5 322 13 BU960058 AGENCOURT
C 114 206.4 7.5 560 9 AU159329 AU159329
C 115 206.2 7.5 475 28 AQ115050 CIT-HSP-2
C 116 206.2 7.5 514 28 AQ277888 CITBI-EI-
C 117 206.2 7.5 551 9 AV756491 AV756491
C 118 206.2 7.5 575 9 AL692058 DKF2P313M
C 119 206 7.5 330 13 BU588888 AGENCOURT
C 120 206 7.5 406 9 AL708766 DKF2P686C
C 121 206 7.5 455 9 AA904211 Qd88e02.8
C 122 206 7.5 585 14 CA445450 UI-H-ED0-
C 123 206 7.5 656 29 AG065096 Pan trogl
C 124 206 7.5 1273 8 BC011712 Homo sapi
C 125 205.8 7.5 352 9 AW089016 xG34d02.X
C 126 205.8 7.5 501 13 BX485916 DKF2P686E
C 127 205.8 7.5 655 14 CA439825 UI-H-DIO-
C 128 205.8 7.5 703 29 CG876931 HSC 00970
C 129 205.6 7.5 901 28 AQ787823 HS 3072 A
C 130 205.4 7.5 392 14 CB296710 12B22058
C 131 205.4 7.5 426 28 B51003 CIT978SK-24
C 132 205.4 7.5 570 28 AQ425937 CITBI-EI-
C 133 205.4 7.5 601 29 AG012178 Homo sapi
C 134 205.4 7.5 702 29 AG012190 Homo sapi
C 135 205.4 7.5 1987 11 AF289581 Homo sapi
C 136 205.2 7.5 600 28 AQ075668 CIT-HSP-2
C 137 205.2 7.5 688 13 BX108850 BX108850
C 138 205.2 7.5 690 28 AQ415537 RPCI-11-1
C 139 205 7.5 568 14 CD517289 AGENCOURT
C 140 205 7.5 852 13 BQ690945 AGENCOURT
C 141 204.8 7.4 416 10 BE062476 QV4-BT025
C 142 204.8 7.4 456 28 AQ588822 CITBI-EI-
C 143 204.8 7.4 478 9 AA706495 aQ89903.r
C 144 204.8 7.4 504 28 AQ504791 RPCI-11-3
C 145 204.8 7.4 597 14 CB268731 1007637 H
C 146 204.8 7.4 955 13 BX390801 BX390801
C 147 204.8 7.4 1538 10 BG036370 G02326675
C 148 204.6 7.4 321 14 CD357555 AGENCOURT
C 149 204.6 7.4 351 9 AA878492 oe15b12.8
C 150 204.6 7.4 412 10 BE062478 QV4-BT025

151 204.6 7.4 459 28 AQ474879 CITBI-EI-
152 204.4 7.4 490 28 AQ124226 B
153 204.4 7.4 529 18 BF918946 QV0-NT014
C 154 204.4 7.4 543 28 B6607755 WHAB195TR
C 155 204.4 7.4 549 28 AQ541959 RPCI-11-3
C 156 204.4 7.4 588 12 BG910226 G02805702
C 157 204.4 7.4 674 29 AG147374 Pan trogl
C 158 204.4 7.4 922 12 BG541111 602570278
C 159 204.4 7.4 1179 10 BF795891 602259133
C 160 204.2 7.4 460 28 AQ537631 RPCI-11-3
C 161 204.2 7.4 487 14 CA772578 1082B10-3
C 162 204.2 7.4 524 12 BM310899 1950509.Y
C 163 204.2 7.4 588 14 CA941982 144609.Y
C 164 204.2 7.4 1086 12 BM471758 AGENCOURT
C 165 204.2 7.4 1250 11 BC016813 Homo sapi
C 166 204 7.4 356 9 AA668587 ac44909.8
C 167 204 7.4 470 9 AA456924 aa90B09.8
C 168 204 7.4 623 14 CB154393 K-EST0212
C 169 204 7.4 639 13 BQ775305 UI-H-FH0-
C 170 204 7.4 784 28 AQ738890 HS 5382 B
C 171 204 7.4 843 10 BE746531 601579491
C 172 204 7.4 970 10 BE744116 601577057
C 173 203.8 7.4 319 13 BU933623 AGENCOURT
C 174 203.8 7.4 338 9 AW023111 DKF2P686F
C 175 203.8 7.4 611 9 AL709223 60259108.Y
C 176 203.6 7.4 1270 11 BC016019 Homo sapi
C 177 203.6 7.4 455 9 AI627614 tV18G06.X
C 178 203.6 7.4 524 28 AQ314507 RPCI11-10
C 179 203.6 7.4 748 28 AQ469371 CITBI-EI-
C 180 203.6 7.4 779 28 AQ739207 HS 5382 B
C 181 203.6 7.4 911 13 BQ719276 AGENCOURT
C 182 203.4 7.4 359 28 AQ628676 RPCI-11-4
C 183 203.4 7.4 505 9 AI922231 wR89h09.X
C 184 203.4 7.4 569 28 AZ518762 RPCI-11-9
C 185 203.4 7.4 678 28 AQ585846 RPCI-11-4
C 186 203.4 7.4 705 28 AZ383211 1M0140H17
C 187 203.4 7.4 727 10 AW963663 EST375736
C 188 203.4 7.4 782 28 BZ609423 WHADE51TR
C 189 203.4 7.4 962 10 BE883679 601507363
C 190 203.4 7.4 2509 11 BC036220 Homo sapi
C 191 203.2 7.4 624 28 AQ315190 RPCI11-10
C 192 203.2 7.4 677 12 B1858435 603386450
C 193 203.2 7.4 678 28 AQ387027 RPCI11-15
C 194 203.2 7.4 749 28 AQ346318 RPCI11-10
C 195 203.2 7.4 767 29 AG173154 Pan trogl
C 196 203.2 7.4 797 14 CB312345 AG173154 Pan trogl
C 197 203.2 7.4 858 12 BG393677 602412095
C 198 203.2 7.4 1638 11 BC015230 Homo sapi
C 199 203 7.4 313 12 B1115748 B1115748 602866202
C 200 203 7.4 388 9 AW069227 c424h09.X
C 201 203 7.4 461 9 AA225406 nc24d02.X
C 202 203 7.4 472 12 BM983330 UI-CF-DUI
C 203 203 7.4 537 28 AQ460053 B
C 204 203 7.4 584 28 AQ319301 RPCI11-98
C 205 203 7.4 597 29 AG160827 Pan trogl
C 206 203 7.4 644 29 AG133201 Pan trogl
C 207 203 7.4 676 29 AG075207 Pan trogl
C 208 203 7.4 704 10 BE787136 601476688
C 209 203 7.4 788 28 BZ597804 AG133201 Pan trogl
C 210 203 7.4 853 28 AQ742500 WHAAQ49TF
C 211 202.8 7.4 345 9 AA579427 nF37C10.8
C 212 202.8 7.4 430 28 B89285 CIT-HSP-217
C 213 202.8 7.4 444 9 AL706892 DKF2P686P
C 214 202.8 7.4 521 12 B1870807 B1870607 603394094
C 215 202.8 7.4 566 28 AQ346062 RPCI11-12
C 216 202.8 7.4 597 9 AV762633 AV762633
C 217 202.8 7.4 641 29 AG079518 Pan trogl
C 218 202.8 7.4 669 29 AG182560 Pan trogl
C 219 202.8 7.4 841 28 AQ751701 HS 5568 B
C 220 202.8 7.4 867 13 BQ711369 AGENCOURT
C 221 202.8 7.4 898 13 BX389099 BX389099
C 222 202.6 7.4 362 13 BY338960 BY338960
C 223 202.6 7.4 430 28 AQ240927 AQ240927

C 224	202.6	7.4	438	13	AX472117	DXFZP686G	297	201.2	7.3	907	28	AQ748286	HS 5535.A
C 225	202.6	7.4	452	10	BF725761	DX19611.Y	C 298	201.2	7.3	985	9	AL044339	DKFZP344A
C 226	202.6	7.4	536	12	BQ023261	UI-1-BB1P	C 299	201.2	7.3	1032	14	CK0232221	ILLUMIGEN
C 227	202.6	7.4	538	13	AX479164	DXFZP686E	C 300	201	7.3	407	12	BG943749	AX41E07.X
C 228	202.6	7.4	701	9	AV732578	AV732578	C 301	201	7.3	428	9	AV746152	AV746152
C 229	202.6	7.4	714	29	AG050668	Pan trogl	C 302	201	7.3	448	28	AQ571525	HS 5370.B
C 230	202.6	7.4	760	10	BF671827	602151716	C 303	201	7.3	433	10	BF769368	RCJ-T001
C 231	202.6	7.4	960	13	BUS87497	AGENCOURT	C 304	201	7.3	561	13	EX492948	DKFZP781E
C 232	202.4	7.4	365	14	T47138	yB52910.S1	C 305	201	7.3	608	28	AQ421434	RPCI-11-1
C 233	202.4	7.4	511	13	BU752760	UI-1-BC0-	C 306	201	7.3	633	13	EX480642	DKFZP6861
C 234	202.4	7.4	673	29	AG124887	Pan trogl	C 307	201	7.3	717	29	AG080871	Pan trogl
C 235	202.4	7.4	735	14	CF146929	UI-HF-CB0	C 308	201	7.3	727	28	BZ603823	WHAAR71TF
C 236	202.2	7.4	409	10	BE138594	AX77H01.X	C 309	201	7.3	772	28	BZ715450	HSC 00457
C 237	202.2	7.4	423	13	BM991096	UI-H-D10-	C 310	201	7.3	860	12	BI084902	602869474
C 238	202.2	7.4	440	13	EX487270	DKFZP686B	C 311	201	7.3	1016	13	BQ674146	AGENCOURT
C 239	202.2	7.4	453	10	BF725844	bx20F10.X	C 312	200.8	7.3	452	14	T74524	yc83c08.r1
C 240	202.2	7.4	462	29	AG020159	Homo sapi	C 313	200.8	7.3	551	12	BM994798	UI-H-DH0-
C 241	202.2	7.4	566	14	CB307969	AGENCOURT	C 314	200.8	7.3	558	14	CD242461	AGENCOURT
C 242	202.2	7.4	581	28	AQ347610	RPCI11-12	C 315	200.8	7.3	601	14	CF147171	UI-HF-CB0
C 243	202.2	7.4	597	10	AW575809	UI-HF-BNO	C 316	200.8	7.3	613	12	BM722009	UI-E-EOO-
C 244	202.2	7.4	604	28	AQ628417	CITBI-E1-	C 317	200.8	7.3	671	28	AQ426599	CITBI-E1-
C 245	202.2	7.4	646	29	AG037586	Pan trogl	C 318	200.8	7.3	686	10	BE888976	601513907
C 246	202.2	7.4	870	13	EX327104	AX327104	C 319	200.8	7.3	712	12	BM998934	UI-H-D10-
C 247	202.2	7.4	903	13	EX455060	AX455060	C 320	200.8	7.3	718	12	BM683112	UI-E-ROI-
C 248	202	7.3	532	28	AQ019256	CIT-HSP-2	C 321	200.6	7.3	379	14	H29511	ym60e09.s1
C 249	202	7.3	544	14	CA396579	GR9F06.Y	C 322	200.6	7.3	386	9	AA828619	od79c01.s
C 250	202	7.3	685	28	AQ312176	RPCI11-10	C 323	200.6	7.3	443	28	AQ082191	RPCI11-55
C 251	202	7.3	688	28	BZ413191	HSC 00387	C 324	200.6	7.3	465	12	BM853838	K-EST0135
C 252	202	7.3	745	14	CB308838	AGENCOURT	C 325	200.6	7.3	496	10	AW512196	AX71E04.X
C 253	201.8	7.3	359	28	AQ582450	RPCI-11-4	C 326	200.6	7.3	515	28	AQ275812	CITBI-E1-
C 254	201.8	7.3	365	14	CD688147	EST4669.h	C 327	200.6	7.3	516	9	AL449689	AL449689
C 255	201.8	7.3	424	28	AQ113643	CIT-HSP-2	C 328	200.6	7.3	528	9	AW021161	df19e12.Y
C 256	201.8	7.3	453	9	AI922224	wn89g09.X	C 329	200.6	7.3	544	10	BF939548	nac78Q08.
C 257	201.8	7.3	493	13	AX499277	DKFZP779J	C 330	200.6	7.3	555	14	CD701897	EST18421
C 258	201.8	7.3	517	13	BUS41876	AGENCOURT	C 331	200.6	7.3	638	28	AZ516769	RPCI-11-4
C 259	201.8	7.3	524	28	AZ518765	RPCI-11-9	C 332	200.6	7.3	659	28	B91772	CIT-HSP-216
C 260	201.8	7.3	536	9	AL709434	DKFZP686B	C 333	200.6	7.3	736	28	AQ236606	RPCI11-71
C 261	201.6	7.3	342	13	EX484854	DKFZP686L	C 334	200.6	7.3	1084	14	BZ59319	602378378
C 262	201.6	7.3	406	9	AI923052	wn24f12.X	C 335	200.4	7.3	441	12	T50676	yB31c07.s1
C 263	201.6	7.3	417	9	AI625604	ty56g01.X	C 336	200.4	7.3	448	28	AQ634562	RPCI-11-4
C 264	201.6	7.3	454	9	AI625604	ty56g01.X	C 337	200.4	7.3	455	28	AQ037381	CIT-HSP-2
C 265	201.6	7.3	478	12	BI495133	df115c09.	C 338	200.4	7.3	466	10	AW272294	xul7cl2.X
C 266	201.6	7.3	505	12	BI492107	df19e12.W	C 339	200.4	7.3	485	9	AI523316	ar7f111.X
C 267	201.6	7.3	506	12	BI495134	df46b05.Y	C 340	200.4	7.3	486	10	AW589862	EST371032
C 268	201.6	7.3	506	12	BI495134	df115c09.	C 341	200.4	7.3	546	12	BM697526	UI-E-DX0-
C 269	201.6	7.3	584	13	BU657179	cl21b06.X	C 342	200.4	7.3	578	10	BE150793	RC2-HT027
C 270	201.6	7.3	656	12	BG546809	602574182	C 343	200.4	7.3	642	28	AQ508044	RPCI-11-2
C 271	201.6	7.3	857	14	CB997964	AGENCOURT	C 344	200.4	7.3	650	14	CK023824	AGENCOURT
C 272	201.6	7.3	941	12	BM051215	603634163	C 345	200.4	7.3	736	14	CD237958	FNPARRH1
C 273	201.4	7.3	398	13	EX484839	DKFZP686K	C 346	200.4	7.3	836	28	AQ628682	RPCI-11-4
C 274	201.4	7.3	434	13	BQ181725	UI-H-EUO-	C 347	200.2	7.3	409	28	AQ628682	RPCI-11-4
C 275	201.4	7.3	457	28	AQ232428	HS 2026.A	C 348	200.2	7.3	444	28	AQ056873	CIT-HSP-2
C 276	201.4	7.3	460	9	AI755057	cr34h01.X	C 349	200.2	7.3	481	9	AL711986	DKFZP686A
C 277	201.4	7.3	482	13	BU735500	UI-E-DW0-	C 350	200.2	7.3	502	28	BZ608984	WHAAR62TF
C 278	201.4	7.3	493	10	BF854090	WR2-EN009	C 351	200.2	7.3	511	12	BM353779	CA77762
C 279	201.4	7.3	591	28	AQ84892	HS 5518.A	C 352	200.2	7.3	611	14	CA777462	ip20e03.X
C 280	201.4	7.3	593	13	AX475865	DKFZP686A	C 353	200.2	7.3	673	29	AG046383	Pan trogl
C 281	201.4	7.3	599	28	AQ350713	RPCI11-11	C 354	200.2	7.3	694	29	AG013776	Homo sapi
C 282	201.4	7.3	670	29	AG174694	Pan trogl	C 355	200.2	7.3	688	29	AG166705	Pan trogl
C 283	201.4	7.3	694	28	AG172896	Pan trogl	C 356	200.2	7.3	703	28	BZ605956	WHAAR31TR
C 284	201.4	7.3	698	14	CF146894	UI-HF-CB0	C 357	200.2	7.3	706	12	BM989586	UI-H-DH0-
C 285	201.4	7.3	700	29	AG013777	Homo sapi	C 358	200.2	7.3	948	9	AL133834	DKFZP761D
C 286	201.4	7.3	710	28	AQ041598	CIT-HSP-2	C 359	200.2	7.3	950	14	CD558421	AGENCOURT
C 287	201.4	7.3	988	13	BU145606	AGENCOURT	C 360	200	7.3	405	12	BM506720	ip24e08.X
C 288	201.4	7.3	1063	12	BM476473	AGENCOURT	C 361	200	7.3	413	9	AA714011	nw18d11.s
C 289	201.2	7.3	307	9	AA523695	nl50b08.B	C 362	200	7.3	436	14	CK002447	AGENCOURT
C 290	201.2	7.3	430	9	AL112082	DKFZP761M	C 363	200	7.3	445	9	AI924954	wn26b08.X
C 291	201.2	7.3	550	10	BF918961	QV0-NT014	C 364	200	7.3	477	12	BI063940	IL3-UT011
C 292	201.2	7.3	677	29	AG167176	Pan trogl	C 365	200	7.3	548	28	AQ469660	CITBI-E1-
C 293	201.2	7.3	721	28	BZ601434	WHAAR41TF	C 366	200	7.3	591	28	AQ476716	CITBI-E1-
C 294	201.2	7.3	722	28	BZ603932	WHAAR92TF	C 367	200	7.3	598	13	BU783147	CITBI-E1-
C 295	201.2	7.3	757	28	AQ528478	RPCI-11-3	C 368	200	7.3	602	13	BU657458	C124e02.Z
C 296	201.2	7.3	852	12	BG115297	602316249	C 369	200	7.3	606	13	AX482182	DKFZP686G

370	200	7.3	613	13	BQ267894	BQ267894 ij9sh11.x	C 443	198.8	7.2	494	28	AQ496959	HS 3044 B
371	200	7.3	781	13	BU852976	BU852976 AGENCOURT	C 444	198.8	7.2	501	28	AQ140067	AQ140067 HS 3108 A
372	200	7.3	788	12	BG108021	BG108021 602279942	C 445	198.8	7.2	551	28	AQ336961	AQ336961 HS 5019 B
373	200	7.3	800	13	BQ415699	BQ415699 AGENCOURT	C 446	198.8	7.2	582	9	AI923451	AI923451 w85g04.x
374	200	7.3	836	28	AQ738849	AQ738849 HS 5386 B	C 447	198.8	7.2	638	12	BG500885	BG500885 602547078
375	200	7.3	1100	12	BM802793	BM802793 AGENCOURT	C 448	198.8	7.2	656	29	AQ063316	AQ063316 Pan trogl
376	200	7.3	2731	11	BC013209	BC013209 Homo sapi	C 449	198.8	7.2	659	13	BU660648	BU660648 c162f05.2
377	199.8	7.3	461	28	B74835	B74835 CIT-HSP-204	C 450	198.8	7.2	666	29	AQ089378	AQ089378 Pan trogl
378	199.8	7.3	481	13	BX503957	BX503957 DKFZp686G	C 451	198.8	7.2	693	28	AZ081997	AZ081997 HSC 00095
379	199.8	7.3	536	13	BQ987387	BQ987387 AGENCOURT	C 452	198.8	7.2	714	29	AQ009651	AQ009651 Homo sapi
380	199.8	7.3	553	28	AQ481091	AQ481091 RPCI-11-2	C 453	198.8	7.2	742	28	AQ751271	AQ751271 HS 5574 B
381	199.8	7.3	614	12	BI061452	BI061452 IL3-UT011	C 454	198.8	7.2	768	9	AU130442	AU130442 AU130442
382	199.8	7.3	690	13	BX504717	BX504717 DKFZp686F	C 455	198.8	7.2	1200	13	BX437750	BX437750 BX437750
383	199.8	7.3	690	13	BX504717	BX504717 DKFZp686F	C 456	198.6	7.2	318	13	BX536535	BX536535 AGENCOURT
384	199.8	7.3	739	28	AQ200209	AQ200209 RPCI11-45	C 457	198.6	7.2	358	13	BX339583	BX339583 BY339583
385	199.8	7.3	819	9	AU130446	AU130446 AU130446	C 458	198.6	7.2	358	13	BX339583	BX339583 BY339583
386	199.8	7.3	864	12	BG682030	BG682030 602629995	C 459	198.6	7.2	441	9	AA441810	AA441810 z962e02.s
387	199.8	7.3	983	13	BX415795	BX415795 BX415795	C 460	198.6	7.2	442	10	BE043997	BE043997 hk83c11.x
388	199.6	7.3	441	28	B80074	B80074 CIT-HSP-204	C 461	198.6	7.2	451	28	B65846	B65846 CIT-HSP-202
389	199.6	7.3	481	13	BX506029	BX506029 DKFZp686B	C 462	198.6	7.2	539	28	AQ394926	AQ394926 CITBI-EI-
390	199.6	7.3	551	28	AQ352725	AQ352725 CITBI-EI-	C 463	198.6	7.2	553	28	AQ727297	AQ727297 HS 3045 B
391	199.6	7.3	590	28	AQ421062	AQ421062 RPCI-11-1	C 464	198.6	7.2	560	28	AQ322702	AQ322702 RPCI11-10
392	199.6	7.3	639	28	AQ080891	AQ080891 CIT-HSP-2	C 465	198.6	7.2	582	10	AW965633	AW965633 EST37706
393	199.6	7.3	738	10	BF527070	BF527070 602039986	C 466	198.6	7.2	606	12	BI596369	BI596369 603243096
394	199.6	7.3	791	12	BM015136	BM015136 603641134	C 467	198.6	7.2	625	13	BUS96147	BUS96147 AGENCOURT
395	199.4	7.3	364	10	AW972963	AW972963 EST385060	C 468	198.6	7.2	640	29	AG161080	AG161080 Pan trogl
396	199.4	7.3	397	14	CA434241	CA434241 UI-H-DIO-	C 469	198.6	7.2	655	29	AG087422	AG087422 Pan trogl
397	199.4	7.3	449	9	AW084100	AW084100 XC37b11.x	C 470	198.6	7.2	661	29	AG152420	AG152420 Pan trogl
398	199.4	7.3	489	28	AQ480399	AQ480399 RPCI-11-2	C 471	198.6	7.2	681	28	AQ543621	AQ543621 RPCI-11-3
399	199.4	7.3	507	28	AQ785164	AQ785164 HS 3159 A	C 472	198.6	7.2	688	9	AV715310	AV715310 AV715310
400	199.4	7.3	512	28	AQ587897	AQ587897 CITBI-EI-	C 473	198.6	7.2	705	29	AG173490	AG173490 Pan trogl
401	199.4	7.3	530	9	AL704074	AL704074 DKFZp6860	C 474	198.6	7.2	762	28	AQ744981	AQ744981 HS 5501 A
402	199.4	7.3	605	28	AQ347764	AQ347764 RPCI11-13	C 475	198.6	7.2	812	13	BUS61498	BUS61498 AGENCOURT
403	199.4	7.3	639	14	CA423358	CA423358 UI-H-FLO-	C 476	198.6	7.2	855	12	BG716110	BG716110 60277563
404	199.4	7.3	660	29	AG157820	AG157820 Pan trogl	C 477	198.6	7.2	859	28	AQ746971	AQ746971 HS 5538 A
405	199.4	7.3	661	28	AQ061162	AQ061162 CIT-HSP-2	C 478	198.6	7.2	935	10	BF968880	BF968880 602270854
406	199.4	7.3	738	12	BG527374	BG527374 602557360	C 479	198.6	7.2	1192	11	BC037942	BC037942 Homo sapi
407	199.4	7.3	808	12	BG432758	BG432758 602496155	C 480	198.4	7.2	380	28	AQ632955	AQ632955 RPCI-11-4
408	199.4	7.3	898	13	BQ673405	BQ673405 AGENCOURT	C 481	198.4	7.2	416	12	BM999659	BM999659 UI-H-DIO-
409	199.4	7.3	916	13	BQ673918	BQ673918 AGENCOURT	C 482	198.4	7.2	424	9	AA757661	AA757661 z936g02.s
410	199.4	7.3	954	13	BQ671774	BQ671774 AGENCOURT	C 483	198.4	7.2	439	9	AL700926	AL700926 DKFZp6860
411	199.2	7.2	2247	11	AF116727	AF116727 Homo sapi	C 484	198.4	7.2	461	28	B65075	B65075 CIT-HSP-201
412	199.2	7.2	492	12	BM758113	BM758113 K-EST0037	C 485	198.4	7.2	475	28	B81885	B81885 RPCI11-17P6
413	199.2	7.2	568	28	AQ791303	AQ791303 HS 4555 B	C 486	198.4	7.2	489	28	AQ357286	AQ357286 CITBI-EI-
414	199.2	7.2	589	9	AL706032	AL706032 DKFZp686I	C 487	198.4	7.2	506	12	BM844232	BM844232 K-EST0122
415	199.2	7.2	642	29	AG083883	AG083883 Pan trogl	C 488	198.4	7.2	521	12	BM841612	BM841612 K-EST0118
416	199.2	7.2	654	14	CX003802	CX003802 AGENCOURT	C 489	198.4	7.2	543	12	BG250044	BG250044 602362129
417	199.2	7.2	678	28	AQ319737	AQ319737 RPCI11-11	C 490	198.4	7.2	585	28	AQ382433	AQ382433 RPCI11-16
418	199.2	7.2	747	13	BX645938	BX645938 DKFZp781C	C 491	198.4	7.2	596	9	AV759149	AV759149 AV759149
419	199.2	7.2	770	13	BU963762	BU963762 AGENCOURT	C 492	198.4	7.2	601	13	BU940318	BU940318 AGENCOURT
420	199.2	7.2	820	28	AQ748794	AQ748794 HS 5574 A	C 493	198.4	7.2	610	13	BU737894	BU737894 UI-E-DWI-
421	199.2	7.2	878	13	BX389068	BX389068 BX389068	C 494	198.4	7.2	669	14	CK005841	CK005841 AGENCOURT
422	199.2	7.2	962	13	BX451905	BX451905 BX451905	C 495	198.4	7.2	671	29	CC470869	CC470869 HSC 0577
423	199.2	7.2	334	14	CB296690	CB296690 12B22041	C 496	198.4	7.2	715	29	AG177973	AG177973 Pan trogl
424	199.2	7.2	342	28	AQ232679	AQ232679 HS 2026 A	C 497	198.4	7.2	720	14	CB962874	CB962874 AGENCOURT
425	199.2	7.2	528	12	BI062952	BI062952 IL3-UT011	C 498	198.4	7.2	738	14	CB984727	CB984727 AGENCOURT
426	199.2	7.2	530	28	AQ356790	AQ356790 CITBI-EI-	C 499	198.4	7.2	837	28	BZ603730	BZ603730 WHAAK21TF
427	199.2	7.2	570	13	BX471065	BX471065 DKFZp686D	C 500	198.4	7.2	840	13	BX457023	BX457023 BX457023
428	199.2	7.2	580	10	BE969845	BE969845 601679417	C 501	198.4	7.2	866	28	AQ782204	AQ782204 HS 3176 B
429	199.2	7.2	590	14	CD07806	CD07806 EST24333	C 502	198.4	7.2	920	10	BG034591	BG034591 602302723
430	199.2	7.2	608	12	BM992765	BM992765 UI-H-DIO-	C 503	198.4	7.2	939	13	BX431534	BX431534 BX431534
431	199.2	7.2	627	12	BI062936	BI062936 IL3-UT011	C 504	198.4	7.2	1036	13	BQ070834	BQ070834 AGENCOURT
432	199.2	7.2	702	29	AG120421	AG120421 Pan trogl	C 505	198.4	7.2	1036	13	BQ070834	BQ070834 AGENCOURT
433	199.2	7.2	734	29	AG011051	AG011051 Homo sapi	C 506	198.4	7.2	3575	11	BC035181	BC035181 Homo sapi
434	199.2	7.2	864	12	BG110162	BG110162 602279794	C 507	198.2	7.2	400	9	AI300054	AI300054 qn54c05.x
435	199.2	7.2	917	13	BU174148	BU174148 AGENCOURT	C 508	198.2	7.2	428	9	AI560085	AI560085 tpi2e02.x
436	199.2	7.2	926	14	CD245029	CD245029 AGENCOURT	C 509	198.2	7.2	442	14	N57681	N57681 yv5sh04.s1
437	198.8	7.2	1423	11	AF113009	AF113009 Homo sapi	C 510	198.2	7.2	444	28	AQ225387	AQ225387 HS 2003 B
438	198.8	7.2	353	9	AA558404	AA558404 nl50g06.s	C 511	198.2	7.2	448	28	AQ424402	AQ424402 CITBI-EI-
439	198.8	7.2	456	10	AW897556	AW897556 CW3-NN005	C 512	198.2	7.2	451	12	BI063166	BI063166 IL3-UT011
440	198.8	7.2	475	28	AQ429065	AQ429065 CITBI-EI-	C 513	198.2	7.2	494	12	AQ08465	AQ08465 HS 5131 A
441	198.8	7.2	477	13	BU660913	BU660913 c165h02.z	C 514	198.2	7.2	495	28	AQ08465	AQ08465 HS 5131 A
442	198.8	7.2	480	9	AI635028	AI635028 tz03d06.x	C 515	198.2	7.2	532	12	BG830539	BG830539 602767127

516	198.2	7.2	534	28	AQ632281	RPCI-11-4	589	197.6	7.2	890	13	BUI169682	BUI169682
517	198.2	7.2	554	28	AQ486777	RPCI-11-2	c 590	197.4	7.2	323	9	AA536040	AA536040 nJ81C09.8
518	198.2	7.2	556	14	CD722486	oJ10C12.Y	c 591	197.4	7.2	368	10	AW855643	AW855643 CM0-CT027
519	198.2	7.2	562	28	AQ792364	HS 5255.B	592	197.4	7.2	388	28	AQ095261	AQ095261 HS 3027.A
520	198.2	7.2	651	14	CA393658	CS40H05.Y	593	197.4	7.2	423	13	BUE58499	BUE58499 CI36H11.Z
521	198.2	7.2	651	14	CK004811	AGENCOURT	c 594	197.4	7.2	457	9	AA804994	AA804994 nv98H06.8
522	198.2	7.2	668	29	AG016182	Homo sapi	c 595	197.4	7.2	487	28	AQ414845	AQ414845 RPCI-11-2
523	198.2	7.2	685	24	CA438814	UI-H-DHO-	c 596	197.4	7.2	522	14	CD702867	CD702867 EST19472
524	198.2	7.2	693	28	AQ391290	CITBI-EI-	c 597	197.4	7.2	533	10	BF828684	BF828684 MR2-RN003
525	198.2	7.2	696	14	CA428208	UI-H-DFO-	598	197.4	7.2	569	28	AQ490878	AQ490878 RPCI-11-2
526	198.2	7.2	706	29	AG098897	Pan trogl	c 599	197.4	7.2	578	14	CD686133	CD686133 EST2654.h
527	198.2	7.2	712	12	BI752166	603022244	600	197.4	7.2	593	13	BX481718	BX481718 DKF2P686G
528	198.2	7.2	754	28	BZ612108	WHACN02IF	c 601	197.4	7.2	598	13	BUE59323	BUE59323 CI46C09.2
529	198.2	7.2	800	9	AV755512	AV755512	602	197.4	7.2	606	9	AF075343	AF075343 AF075343
530	198.2	7.2	891	14	CD300637	AGENCOURT	603	197.4	7.2	606	9	AI110844	AI110844 HA0297.Hu
531	198.2	7.2	922	13	BUS01973	AGENCOURT	c 604	197.4	7.2	651	29	AG158208	AG158208 Pan trogl
532	198.2	7.2	922	13	BZ773416	mcV69a07.	c 605	197.4	7.2	651	29	AG049305	AG049305 Pan trogl
533	198.2	7.2	966	28	BZ773416	mcV69a07.	606	197.4	7.2	665	29	AG093451	AG093451 Pan trogl
534	198.2	7.2	1023	12	BG573852	602594979	607	197.4	7.2	685	29	AQ389756	AQ389756 RPCI11-15
535	198.2	7.2	1058	12	BM554734	AGENCOURT	608	197.4	7.2	699	28	AQ389756	AQ389756 RPCI11-15
536	198.2	7.2	1086	13	BUI63811	AGENCOURT	609	197.4	7.2	719	28	BZ602124	BZ602124 WHABQ94TF
537	198.2	7.2	1201	13	EX377759	EX377759	c 610	197.4	7.2	722	28	AQ588514	AQ588514 CITBI-EI-
538	198.2	7.2	1201	13	EX377759	EX377759	c 611	197.4	7.2	722	28	AX412204	AX412204 CX412204
539	198.2	7.2	1201	13	EX377759	EX377759	c 612	197.4	7.2	722	28	BM466902	BM466902 AGENCOURT
540	198.2	7.2	1201	13	EX377759	EX377759	c 613	197.4	7.2	722	28	BC031290	BC031290 Homo sapi
541	198.2	7.2	1201	13	EX377759	EX377759	c 614	197.4	7.2	722	28	BC035989	BC035989 AGENCOURT
542	198.2	7.2	1201	13	EX377759	EX377759	c 615	197.4	7.2	722	28	BF923365	BF923365 MR2-NT013
543	198.2	7.2	1201	13	EX377759	EX377759	c 616	197.4	7.2	722	28	BI062751	BI062751 I13-UT011
544	198.2	7.2	1201	13	EX377759	EX377759	c 617	197.4	7.2	722	28	AQ543001	AQ543001 RPCI-11-3
545	198.2	7.2	1201	13	EX377759	EX377759	c 618	197.4	7.2	722	28	AQ317821	AQ317821 RPCI11-80
546	198.2	7.2	1201	13	EX377759	EX377759	c 619	197.4	7.2	722	28	BQ960498	BQ960498 I13-CT067
547	198.2	7.2	1201	13	EX377759	EX377759	c 620	197.4	7.2	722	28	AQ395634	AQ395634 CITBI-EI-
548	198.2	7.2	1201	13	EX377759	EX377759	c 621	197.4	7.2	722	28	BQ202418	BQ202418 UI-H-DFO-
549	198.2	7.2	1201	13	EX377759	EX377759	c 622	197.4	7.2	722	28	AI923458	AI923458 wn85H04.x
550	198.2	7.2	1201	13	EX377759	EX377759	c 623	197.4	7.2	722	28	BM993430	BM993430 UI-H-DFO-
551	198.2	7.2	1201	13	EX377759	EX377759	c 624	197.4	7.2	722	28	BQ775123	BQ775123 UI-H-PHO-
552	198.2	7.2	1201	13	EX377759	EX377759	c 625	197.4	7.2	722	28	AG016202	AG016202 Homo sapi
553	198.2	7.2	1201	13	EX377759	EX377759	c 626	197.4	7.2	722	28	BM728941	BM728941 UI-E-EOL-
554	198.2	7.2	1201	13	EX377759	EX377759	c 627	197.4	7.2	722	28	AG035154	AG035154 Pan trogl
555	198.2	7.2	1201	13	EX377759	EX377759	c 628	197.4	7.2	722	28	BZ602766	BZ602766 WHAD055TR
556	198.2	7.2	1201	13	EX377759	EX377759	c 629	197.4	7.2	722	28	BI603241	BI603241 603249892
557	198.2	7.2	1201	13	EX377759	EX377759	c 630	197.4	7.2	722	28	CF135935	CF135935 UI-H-BNO
558	198.2	7.2	1201	13	EX377759	EX377759	c 631	197.4	7.2	722	28	BM984741	BM984741 UI-H-BNO
559	198.2	7.2	1201	13	EX377759	EX377759	c 632	197.4	7.2	722	28	AQ744206	AQ744206 HS_5508.A
560	198.2	7.2	1201	13	EX377759	EX377759	c 633	197.4	7.2	722	28	AF132204	AF132204 Homo sapi
561	198.2	7.2	1201	13	EX377759	EX377759	c 634	197.4	7.2	722	28	AI085242	AI085242 oy71a04.x
562	198.2	7.2	1201	13	EX377759	EX377759	c 635	197.4	7.2	722	28	AV656063	AV656063 QV15a09.x
563	198.2	7.2	1201	13	EX377759	EX377759	c 636	197.4	7.2	722	28	AI356986	AI356986 QV15a09.x
564	198.2	7.2	1201	13	EX377759	EX377759	c 637	197.4	7.2	722	28	CD241905	CD241905 AGENCOURT
565	198.2	7.2	1201	13	EX377759	EX377759	c 638	197.4	7.2	722	28	BF857849	BF857849 QV1-F7020
566	198.2	7.2	1201	13	EX377759	EX377759	c 639	197.4	7.2	722	28	BG010084	BG010084 PM4-GN030
567	198.2	7.2	1201	13	EX377759	EX377759	c 640	197.4	7.2	722	28	BZ609220	BZ609220 WHAD055TF
568	198.2	7.2	1201	13	EX377759	EX377759	c 641	197.4	7.2	722	28	AQ428994	AQ428994 CITBI-EI-
569	198.2	7.2	1201	13	EX377759	EX377759	c 642	197.4	7.2	722	28	BX646260	BX646260 DKF2P781E
570	198.2	7.2	1201	13	EX377759	EX377759	c 643	197.4	7.2	722	28	AQ344705	AQ344705 RPCI11-11
571	198.2	7.2	1201	13	EX377759	EX377759	c 644	197.4	7.2	722	28	AQ554309	AQ554309 RPCI-11-4
572	198.2	7.2	1201	13	EX377759	EX377759	c 645	197.4	7.2	722	28	EX507567	EX507567 DKF2P686L
573	198.2	7.2	1201	13	EX377759	EX377759	c 646	197.4	7.2	722	28	AG183410	AG183410 Pan trogl
574	198.2	7.2	1201	13	EX377759	EX377759	c 647	197.4	7.2	722	28	CG784112	CG784112 HSC 00887
575	198.2	7.2	1201	13	EX377759	EX377759	c 648	197.4	7.2	722	28	EG155297	EG155297 602344196
576	198.2	7.2	1201	13	EX377759	EX377759	c 649	197.4	7.2	722	28	CD515484	CD515484 AGENCOURT
577	198.2	7.2	1201	13	EX377759	EX377759	c 650	197.4	7.2	722	28	AF119908	AF119908 Homo sapi
578	198.2	7.2	1201	13	EX377759	EX377759	c 651	197.4	7.2	722	28	BC035158	BC035158 Homo sapi
579	198.2	7.2	1201	13	EX377759	EX377759	c 652	197.4	7.2	722	28	AQ112243	AQ112243 CIT-HSP-2
580	198.2	7.2	1201	13	EX377759	EX377759	c 653	197.4	7.2	722	28	AQ535344	AQ535344 RPCI-11-3
581	198.2	7.2	1201	13	EX377759	EX377759	c 654	197.4	7.2	722	28	B67141	B67141 CIT-HSP-201
582	198.2	7.2	1201	13	EX377759	EX377759	c 655	197.4	7.2	722	28	AQ180446	AQ180446 HS_3216.B
583	198.2	7.2	1201	13	EX377759	EX377759	c 656	197.4	7.2	722	28	AQ476641	AQ476641 CITBI-EI-
584	198.2	7.2	1201	13	EX377759	EX377759	c 657	197.4	7.2	722	28	BUS79561	BUS79561 in86610.Y
585	198.2	7.2	1201	13	EX377759	EX377759	c 658	197.4	7.2	722	28	AQ896719	AQ896719 HS 3153.A
586	198.2	7.2	1201	13	EX377759	EX377759	c 659	197.4	7.2	722	28	AQ376840	AQ376840 RPCI11-15
587	198.2	7.2	1201	13	EX377759	EX377759	c 660	197.4	7.2	722	28	EX102838	EX102838 BX102838
588	198.2	7.2	1201	13	EX377759	EX377759	c 661	197.4	7.2	722	28	AL712019	AL712019 DKF2P686D

C 662	196.8	7.2	674	14	CD369914	UI-H-FTI-	CD369914	UI-H-FTI-	735	196.2	7.1	444	28	AQ088791	AQ088791 HS 3002.A
C 663	196.8	7.2	719	9	AL706491	DKF2p686D	AL706491	DKF2p686D	736	196.2	7.1	480	9	AI814682	AI814682 wk6b07.x
C 664	196.8	7.2	744	28	BZ773255	mcv65e04	BZ773255	mcv65e04	737	196.2	7.1	481	9	AQ262193	AQ262193 CITBI-EI-
C 665	196.8	7.2	765	28	AQ738678	HS 5381.B	AQ738678	HS 5381.B	738	196.2	7.1	491	28	AQ222134	AQ222134 RPI11-10
C 666	196.8	7.2	801	13	BQ627541	UI-H-FGO-	BQ627541	UI-H-FGO-	739	196.2	7.1	528	12	BQ005898	BQ005898 UI-H-ED0-
C 667	196.8	7.2	801	28	BZ600703	WHABC76TF	BZ600703	WHABC76TF	740	196.2	7.1	545	28	AQ0505381	AQ0505381 RPI1-11-3
C 668	196.8	7.2	879	13	BX434837	BX434837	BX434837	BX434837	741	196.2	7.1	560	9	AI589348	AI589348 DKF2p451K
C 669	196.8	7.2	946	13	BX361280	BX361280	BX361280	BX361280	742	196.2	7.1	584	10	AW975626	AW975626 EBT387735
C 670	196.8	7.2	981	13	BQ881721	BQ881721	BQ881721	BQ881721	743	196.2	7.1	590	28	B91184	B91184 CIT-HSP-216
C 671	196.8	7.2	1027	12	BG539940	BG539940	BG539940	BG539940	744	196.2	7.1	615	13	BU783874	BU783874 inl0h03.x
C 672	196.6	7.2	291	9	AA491767	ne94h07.s	AA491767	ne94h07.s	745	196.2	7.1	644	13	BX478445	BX478445 DKF2p686D
C 673	196.6	7.2	313	12	BG942005	ax19h11.x	BG942005	ax19h11.x	746	196.2	7.1	647	29	AG049716	AG049716 Pan trogl
C 674	196.6	7.2	323	13	BU851844	AGENCOURT	BU851844	AGENCOURT	747	196.2	7.1	651	29	AG173822	AG173822 Pan trogl
C 675	196.6	7.2	353	13	BU662405	cl85e10.z	BU662405	cl85e10.z	748	196.2	7.1	664	28	AQ393000	AQ393000 CITBI-EI-
C 676	196.6	7.2	356	13	BY337367	BY337367	BY337367	BY337367	749	196.2	7.1	664	28	AG151502	AG151502 Pan trogl
C 677	196.6	7.2	357	12	BG180976	602327459	BG180976	602327459	750	196.2	7.1	674	12	BM997701	BM997701 UI-H-DH0-
C 678	196.6	7.2	382	9	AI186438	qk26a04.x	AI186438	qk26a04.x	751	196.2	7.1	678	28	B90319	B90319 CIT-HSP-217
C 679	196.6	7.2	408	9	AI362442	qk96a03.x	AI362442	qk96a03.x	752	196.2	7.1	699	28	AQ201515	AQ201515 RPI11-44
C 680	196.6	7.2	414	28	B66825	CIT-HSP-201	B66825	CIT-HSP-201	753	196.2	7.1	705	13	BU616173	BU616173 UI-H-DF0-
C 681	196.6	7.2	485	10	AW674258	bb30b04.x	AW674258	bb30b04.x	754	196.2	7.1	732	13	BX471414	BX471414 DKF2p686C
C 682	196.6	7.2	486	10	BE2589258	BE2589258	BE2589258	BE2589258	755	196.2	7.1	872	13	BO674797	BO674797 AGENCOURT
C 683	196.6	7.2	493	10	AW995323	QVO-BN004	AW995323	QVO-BN004	756	196.2	7.1	1384	11	BC015101	BC015101 Homo sapi
C 684	196.6	7.2	552	9	AL712937	DKF2p686B	AL712937	DKF2p686B	757	196	7.1	354	10	AW237905	AW237905 XQ95a08.x
C 685	196.6	7.2	552	9	AV763782	AV763782	AV763782	AV763782	758	196	7.1	434	9	AW081303	AW081303 xk30e02.x
C 686	196.6	7.2	554	9	AL713338	DKF2p686P	AL713338	DKF2p686P	759	196	7.1	445	13	BU728124	BU728124 UI-E-CQ0-
C 687	196.6	7.2	569	9	AL042373	DKF2p434A	AL042373	DKF2p434A	760	196	7.1	460	14	CF137232	CF137232 UI-HF-BNO
C 688	196.6	7.2	585	12	BM045436	603623552	BM045436	603623552	761	196	7.1	485	28	AQ550565	AQ550565 RPI1-11-4
C 689	196.6	7.2	607	12	BG778393	602666556	BG778393	602666556	762	196	7.1	489	9	AI160786	AI160786 QC75e09.x
C 690	196.6	7.2	629	28	AQ377967	RPI111-16	AQ377967	RPI111-16	763	196	7.1	530	28	AQ174842	AQ174842 HS 3211.B
C 691	196.6	7.2	664	29	AG069617	Pan trogl	AG069617	Pan trogl	764	196	7.1	539	10	AW500534	AW500534 UI-HF-BNO
C 692	196.6	7.2	669	14	CK005380	AGENCOURT	CK005380	AGENCOURT	765	196	7.1	548	28	AQ609133	AQ609133 HS 5373.B
C 693	196.6	7.2	689	13	BX502939	DKF2p7790	BX502939	DKF2p7790	766	196	7.1	552	14	CA774186	CA774186 in23d06.x
C 694	196.6	7.2	724	29	AG141226	Pan trogl	AG141226	Pan trogl	767	196	7.1	561	13	BX494138	BX494138 DKF2p779F
C 695	196.6	7.2	740	9	AV731678	AV731678	AV731678	AV731678	768	196	7.1	578	13	EX507975	EX507975 DKF2p686P
C 696	196.6	7.2	756	28	BZ599796	WHACM277F	BZ599796	WHACM277F	769	196	7.1	588	12	BG942752	BG942752 ax29b07.x
C 697	196.6	7.2	770	12	BI198888	602758918	BI198888	602758918	770	196	7.1	591	28	AQ240052	AQ240052 CIT-HSP-2
C 698	196.6	7.2	790	28	AQ740405	HS 5502.A	AQ740405	HS 5502.A	771	196	7.1	619	14	CA441065	CA441065 UI-H-DP0-
C 699	196.6	7.2	892	14	CD518383	AGENCOURT	CD518383	AGENCOURT	772	196	7.1	643	10	BF212465	BF212465 601813237
C 700	196.6	7.2	907	13	BQ710503	AGENCOURT	BQ710503	AGENCOURT	773	196	7.1	687	10	BI78064	BI78064 RC3-HT060
C 701	196.6	7.2	1067	13	BU172933	AGENCOURT	BU172933	AGENCOURT	774	196	7.1	696	13	BU616112	BU616112 UI-H-DF0-
C 702	196.6	7.2	1201	13	BX343668	BX343668	BX343668	BX343668	775	196	7.1	712	29	AG010148	AG010148 Homo sapi
C 703	196.4	7.1	325	12	BI480881	H2RPE-061	BI480881	H2RPE-061	776	196	7.1	742	14	CD239228	CD239228 FNPMA10
C 704	196.4	7.1	356	9	AI349817	AI349817	AI349817	AI349817	777	196	7.1	748	14	CF9585838	CF9585838 AGENCOURT
C 705	196.4	7.1	414	9	AV741914	AV741914	AV741914	AV741914	778	196	7.1	750	29	AG011936	AG011936 Homo sapi
C 706	196.4	7.1	440	9	AA070899	zm66c01.s	AA070899	zm66c01.s	779	196	7.1	753	28	BZ774352	BZ774352 mcv92c10.
C 707	196.4	7.1	445	28	AQ275354	RPI1-5-10	AQ275354	RPI1-5-10	780	196	7.1	753	29	AG011935	AG011935 Homo sapi
C 708	196.4	7.1	463	13	BQ416855	IK42e06.x	BQ416855	IK42e06.x	781	196	7.1	833	28	BZ612682	BZ612682 WHACM87TR
C 709	196.4	7.1	509	10	BF814183	RC3-CI004	BF814183	RC3-CI004	782	196	7.1	1159	12	BM465227	BM465227 AGENCOURT
C 710	196.4	7.1	511	28	AQ808980	HS 5252.A	AQ808980	HS 5252.A	783	196	7.1	1201	13	BX361067	BX361067 BX361067
C 711	196.4	7.1	533	28	AQ471624	CITBI-EI-	AQ471624	CITBI-EI-	784	195.8	7.1	318	13	BU858322	BU858322 AGENCOURT
C 712	196.4	7.1	540	28	AQ442353	HS 5117.B	AQ442353	HS 5117.B	785	195.8	7.1	337	13	BU566980	BU566980 AGENCOURT
C 713	196.4	7.1	566	13	BQ417468	IK38d04.y	BQ417468	IK38d04.y	786	195.8	7.1	350	28	BZ601892	BZ601892 WHADP60TR
C 714	196.4	7.1	572	10	AW372043	RC2-BT031	AW372043	RC2-BT031	787	195.8	7.1	357	10	BE139358	BE139358 xr69d09.x
C 715	196.4	7.1	582	13	BQ286387	IK29e05.y	BQ286387	IK29e05.y	788	195.8	7.1	358	9	AI440117	AI440117 t62a06.x
C 716	196.4	7.1	598	28	B92813	CIT-HSP-216	B92813	CIT-HSP-216	789	195.8	7.1	361	28	AQ045872	AQ045872 RPI11-31
C 717	196.4	7.1	616	29	AG157881	Pan trogl	AG157881	Pan trogl	790	195.8	7.1	380	28	AQ045872	AQ045872 RPI11-31
C 718	196.4	7.1	633	9	AL707626	DKF2p686D	AL707626	DKF2p686D	791	195.8	7.1	383	10	BE139267	BE139267 xr68a06.x
C 719	196.4	7.1	671	29	AG079103	Pan trogl	AG079103	Pan trogl	792	195.8	7.1	397	9	AA600202	AA600202 ae46f03.s
C 720	196.4	7.1	695	29	AG113036	Pan trogl	AG113036	Pan trogl	793	195.8	7.1	400	28	B60245	B60245 CIT-HSP-200
C 721	196.4	7.1	740	14	CB963410	AGENCOURT	CB963410	AGENCOURT	794	195.8	7.1	411	28	AQ017617	AQ017617 CIT-HSP-2
C 722	196.4	7.1	742	28	BX636304	Pan trogl	BX636304	Pan trogl	795	195.8	7.1	426	28	AQ282192	AQ282192 RPI11-1J
C 723	196.4	7.1	753	13	BU853329	AGENCOURT	BU853329	AGENCOURT	796	195.8	7.1	436	9	AA655016	AA655016 nt78b08.s
C 724	196.4	7.1	832	28	BZ599812	WHADP76TR	BZ599812	WHADP76TR	797	195.8	7.1	436	12	BI497377	BI497377 df135g02
C 725	196.4	7.1	906	14	CD558557	AGENCOURT	CD558557	AGENCOURT	798	195.8	7.1	454	28	AQ268452	AQ268452 RPI11-69
C 726	196.4	7.1	909	10	BF184981	601843479	BF184981	601843479	799	195.8	7.1	466	28	AQ170949	AQ170949 HS 2197.B
C 727	196.4	7.1	1207	28	AF102031	AF102031	AF102031	AF102031	800	195.8	7.1	495	28	AQ466784	AQ466784 HS 5181.B
C 728	196.4	7.1	1216	28	AF101533	AF101533	AF101533	AF101533	801	195.8	7.1	515	28	AQ180447	AQ180447 HS 3216.B
C 729	196.4	7.1	2335	11	BC035366	Homo sapi	BC035366	Homo sapi	802	195.8	7.1	519	13	BQ581726	BQ581726 in12c10.x
C 730	196.2	7.1	334	14	F35374	HSPD31459.H	F35374	HSPD31459.H	803	195.8	7.1	528	9	AA833896	AA833896 od64q08.s
C 731	196.2	7.1	407	9	AA887235	wm37f11.x	AA887235	wm37f11.x	804	195.8	7.1	531	13	BU674026	BU674026 UI-CR-DU0
C 732	196.2	7.1	410	9	AA832175	OC91C04.s	AA832175	OC91C04.s	805	195.8	7.1	533	9	AA833875	AA833875 od64e08.s
C 733	196.2	7.1	423	10	AW819125	RC3-ST038	AW819125	RC3-ST038	806	195.8	7.1	536	28	AQ637589	AQ637589 RPI1-11-4
C 734	196.2	7.1	428	12	BG250390	602362542	BG250390	602362542	807	195.8	7.1	562	9	AU147162	AU147162 AU147162

C 808	195.8	7.1	567	9	AV761107	AV761107 AV761107	C 881	195.4	7.1	596	29	AG169302	AG169302 Pan trogl
C 809	195.8	7.1	589	13	AQ484951	AQ484951 RPT-11-2	C 882	195.4	7.1	703	28	AQ308788	AQ308788 CITBI-EI-
C 810	195.8	7.1	606	13	BQ778458	BQ778458 1131d07.x	C 883	195.4	7.1	747	12	BM999559	BM999559 UI-H-DPO-
C 811	195.8	7.1	634	29	AQ65330	AQ65330 Pan trogl	C 884	195.4	7.1	769	14	CD370173	CD370173 UI-H-DPO-
C 812	195.8	7.1	635	12	BI603881	BI603881 603249774	C 885	195.4	7.1	814	12	BG682037	BG682037 602630006
C 813	195.8	7.1	645	29	AG162624	AG162624 Pan trogl	C 886	195.4	7.1	843	14	CD544903	CD544903 AGENCOURT
C 814	195.8	7.1	664	28	AQ742068	AQ742068 HS_5566_B	C 887	195.4	7.1	871	13	EX457055	EX457055 EX457055
C 815	195.8	7.1	671	29	AG016201	AG016201 Homo sapi	C 888	195.4	7.1	881	9	AU118374	AU118374 AU118374
C 816	195.8	7.1	673	12	BG493959	BG493959 602542239	C 889	195.4	7.1	988	14	CD518499	CD518499 AGENCOURT
C 817	195.8	7.1	676	29	AG178621	AG178621 Pan trogl	C 890	195.4	7.1	373	13	BQ181689	BQ181689 UI-H-EUO-
C 818	195.8	7.1	678	12	BQ028906	BQ028906 UI-H-DPO-	C 891	195.2	7.1	379	12	BI021416	BI021416 IL3-MT026
C 819	195.8	7.1	683	29	AG127273	AG127273 Pan trogl	C 892	195.2	7.1	390	28	AQ201761	AQ201761 RPT-11-44
C 820	195.8	7.1	701	13	BQ774698	BQ774698 UI-H-FHO-	C 893	195.2	7.1	415	9	AA533040	AA533040 nj60b02.8
C 821	195.8	7.1	712	14	CD246087	CD246087 AGENCOURT	C 894	195.2	7.1	422	12	BQ030451	BQ030451 UI-H-DTO-
C 822	195.8	7.1	721	14	CD364665	CD364665 UI-H-F7-	C 895	195.2	7.1	441	14	CD593386	CD593386 EST9909.h
C 823	195.8	7.1	737	14	CD239898	CD239898 FNPB2H08	C 896	195.2	7.1	447	28	AQ082732	AQ082732 RPT-11-54
C 824	195.8	7.1	760	9	AL691744	AL691744 DKFZp313M	C 897	195.2	7.1	450	9	AA501461	AA501461 ne68a06.8
C 825	195.8	7.1	779	14	CA442904	CA442904 UI-H-DPO-	C 898	195.2	7.1	466	28	AQ590440	AQ590440 HS_5388_A
C 826	195.8	7.1	811	28	AQ780945	AQ780945 HS_3138_B	C 899	195.2	7.1	486	9	AA315361	AA315361 EST18192
C 827	195.8	7.1	1201	13	BA460260	BA460260 EX460260	C 900	195.2	7.1	498	14	CA773406	CA773406 1m63f10.Y
C 828	195.8	7.1	3197	11	BC039251	BC039251 Homo sapi	C 901	195.2	7.1	508	12	BM667031	BM667031 UI-E-DXO-
C 829	195.8	7.1	346	28	AQ706012	AQ706012 HS_5556_A	C 902	195.2	7.1	525	10	AM615504	AM615504 ba10e11.x
C 830	195.6	7.1	377	9	AA856873	AA856873 Qd83f09.8	C 903	195.2	7.1	528	28	AQ592328	AQ592328 HS_5331_B
C 831	195.6	7.1	439	9	AV738383	AV738383 AV738383	C 904	195.2	7.1	560	10	BE155951	BE155951 OV0-HT036
C 832	195.6	7.1	477	28	AQ221138	AQ221138 HS_2258_B	C 905	195.2	7.1	577	28	BZ600489	BZ600489 WHA420TR
C 833	195.6	7.1	479	14	W96522	W96522 ze43f08.r1	C 906	195.2	7.1	597	9	AV733437	AV733437 AV733437
C 834	195.6	7.1	519	28	AQ348955	AQ348955 RPT-11-12	C 907	195.2	7.1	609	13	BX473888	BX473888 DKFZp686N
C 835	195.6	7.1	523	13	BA491309	BA491309 DKFZp686K	C 908	195.2	7.1	670	29	AG127250	AG127250 Pan trogl
C 836	195.6	7.1	539	28	AQ379787	AQ379787 RPT-11-15	C 909	195.2	7.1	680	29	AG125610	AG125610 Pan trogl
C 837	195.6	7.1	551	28	AQ626960	AQ626960 CITBI-EI-	C 910	195.2	7.1	691	28	AQ899804	AQ899804 HS_2013_A
C 838	195.6	7.1	565	28	AQ341438	AQ341438 RPT-11-11	C 911	195.2	7.1	700	13	BX508919	BX508919 DKFZp686G
C 839	195.6	7.1	577	28	AQ265389	AQ265389 CITBI-EI-	C 912	195.2	7.1	705	28	AQ380615	AQ380615 RPT-11-16
C 840	195.6	7.1	585	10	BE315483	BE315483 601140873	C 913	195.2	7.1	706	29	AG121075	AG121075 Pan trogl
C 841	195.6	7.1	601	14	CK002080	CK002080 AGENCOURT	C 914	195.2	7.1	732	28	AQ506289	AQ506289 RPT-11-2
C 842	195.6	7.1	607	28	AQ078392	AQ078392 CIT-HSP-2	C 915	195.2	7.1	794	12	BG742810	BG742810 602632558
C 843	195.6	7.1	616	28	AQ423370	AQ423370 CITBI-EI-	C 916	195.2	7.1	972	13	BQ712081	BQ712081 AGENCOURT
C 844	195.6	7.1	619	13	BX505458	BX505458 DKFZp686E	C 917	195.2	7.1	1010	12	BG290486	BG290486 602388345
C 845	195.6	7.1	659	28	BH609644	BH609644 HIV05B01	C 918	195	7.1	321	13	BH958280	BH958280 AGENCOURT
C 846	195.6	7.1	664	29	AG099156	AG099156 Pan trogl	C 919	195	7.1	335	12	BG939917	BG939917 ax01b11.x
C 847	195.6	7.1	672	29	AG104530	AG104530 Pan trogl	C 920	195	7.1	410	28	AQ216301	AQ216301 HS_3240_B
C 848	195.6	7.1	679	29	AG016200	AG016200 Homo sapi	C 921	195	7.1	422	9	AL601258	AL601258 DKFZp313K
C 849	195.6	7.1	722	28	AQ895351	AQ895351 HS_3133_A	C 922	195	7.1	441	28	AQ595914	AQ595914 HS_2116_B
C 850	195.6	7.1	727	29	CG385930	CG385930 HSC_00780	C 923	195	7.1	443	28	AQ204776	AQ204776 HS_3433_A
C 851	195.6	7.1	737	28	AQ751269	AQ751269 HS_5574_B	C 924	195	7.1	456	9	AV745803	AV745803 AV745803
C 852	195.6	7.1	770	14	CF595624	CF595624 AGENCOURT	C 925	195	7.1	492	9	AL708858	AL708858 DKFZp686K
C 853	195.6	7.1	811	13	BQ429073	BQ429073 AGENCOURT	C 926	195	7.1	518	28	B81147	B81147 CIT-HSP-201
C 854	195.6	7.1	839	28	BZ606035	BZ606035 WHACT65FR	C 927	195	7.1	520	13	BX643114	BX643114 DKFZp781L
C 855	195.6	7.1	888	10	BF184128	BF184128 601843185	C 928	195	7.1	534	28	AQ476957	AQ476957 CITBI-EI-
C 856	195.6	7.1	912	12	BG116570	BG116570 602317696	C 929	195	7.1	554	28	AQ345762	AQ345762 RPT-11-11
C 857	195.6	7.1	946	28	AQ744276	AQ744276 HS_5508_A	C 930	195	7.1	586	28	AQ390048	AQ390048 RPT-11-14
C 858	195.6	7.1	1200	13	BX404721	BX404721 EX404721	C 931	195	7.1	594	28	AQ343968	AQ343968 RPT-11-11
C 859	195.4	7.1	404	9	AI421257	AI421257 tE14d09.x	C 932	195	7.1	620	10	AW971071	AW971071 EST383157
C 860	195.4	7.1	410	9	AA568314	AA568314 nE15C01.8	C 933	195	7.1	624	28	AQ737399	AQ737399 RPT-11-15
C 861	195.4	7.1	433	10	AW873261	AW873261 Hm05b11.x	C 934	195	7.1	667	29	AG155188	AG155188 Pan trogl
C 862	195.4	7.1	481	13	BX506232	BX506232 DKFZp686N	C 935	195	7.1	670	29	AG104085	AG104085 Pan trogl
C 863	195.4	7.1	482	28	AQ603417	AQ603417 HS_2126_A	C 936	195	7.1	674	29	AG123283	AG123283 Pan trogl
C 864	195.4	7.1	484	28	AQ186366	AQ186366 HS_3085_A	C 937	195	7.1	685	29	AG088804	AG088804 Pan trogl
C 865	195.4	7.1	489	28	AQ627841	AQ627841 CITBI-EI-	C 938	195	7.1	699	13	BY763723	BY763723 BY763723
C 866	195.4	7.1	520	28	AQ719860	AQ719860 HS_5546_A	C 939	195	7.1	708	10	BH978936	BH978936 602147612
C 867	195.4	7.1	546	9	AI889995	AI889995 whm0C03.x	C 940	195	7.1	763	28	BZ611555	BZ611555 WHACT512F
C 868	195.4	7.1	546	9	AQ548438	AQ548438 RPT-11-4	C 941	195	7.1	907	12	BG547933	BG547933 602576037
C 869	195.4	7.1	553	13	BH579702	BH579702 Im89d08.x	C 942	195	7.1	1003	13	BQ065310	BQ065310 AGENCOURT
C 870	195.4	7.1	555	28	AQ136808	AQ136808 RPT-11-3P	C 943	194.8	7.1	372	28	AQ163866	AQ163866 HS_3171_A
C 871	195.4	7.1	562	10	BF838015	BF838015 OV3-HT101	C 944	194.8	7.1	397	28	AQ207078	AQ207078 HS_3235_A
C 872	195.4	7.1	562	9	AV759803	AV759803 AV759803	C 945	194.8	7.1	408	28	AQ180202	AQ180202 HS_3300_B
C 873	195.4	7.1	622	9	AQ351016	AQ351016 RPT-11-12	C 946	194.8	7.1	421	9	AI336637	AI336637 ta94e09.x
C 874	195.4	7.1	631	13	BX496221	BX496221 DKFZp779N	C 947	194.8	7.1	421	10	AW674631	AW674631 BD41a11.x
C 875	195.4	7.1	633	9	AL119247	AL119247 DKFZp761G	C 948	194.8	7.1	424	28	AQ393641	AQ393641 CITBI-EI-
C 876	195.4	7.1	633	9	AL133771	AL133771 DKFZp761E	C 949	194.8	7.1	442	13	BX101829	BX101829 BX101829
C 877	195.4	7.1	655	29	AG154911	AG154911 Pan trogl	C 950	194.8	7.1	521	28	AQ760330	AQ760330 HS_3028_A
C 878	195.4	7.1	668	12	BM990806	BM990806 UI-H-DIO-	C 951	194.8	7.1	556	12	BM997889	BM997889 UI-H-DIO-
C 879	195.4	7.1	676	28	AQ037792	AQ037792 CIT-HSP-2	C 952	194.8	7.1	570	28	AQ509083	AQ509083 RPT-11-2
C 880	195.4	7.1	677	29	AG068925	AG068925 Pan trogl	C 953	194.8	7.1	580	28	AQ419045	AQ419045 RPT-11-1

C 954	194.8	7.1	606	13	BU662311	BU662311 c184c08.z	1027	194.4	7.1	601	28	AQ419533	AQ419533
C 955	194.8	7.1	630	9	AI114534	HA1117 Hu	1028	194.4	7.1	602	14	CD369014	CD369014 UI-H-FTI-
C 956	194.8	7.1	639	12	BM992802	BM992802 UI-H-DT0-	1029	194.4	7.1	683	29	AG141291	AG141291 Pan trogl
C 957	194.8	7.1	646	9	AI207424	HA22766 Hu	C1030	194.4	7.1	687	12	BG777306	BG777306 602664547
958	194.8	7.1	654	13	BX509955	DKF2p686B	1031	194.4	7.1	697	28	AQ054805	AQ054805 CIT-HSP-2
C 959	194.8	7.1	646	13	BX489322	DKF2p686E	1032	194.4	7.1	700	13	BG663882	BG663882 c1108a08.
C 960	194.8	7.1	658	28	AQ200765	AQ200765 RPT111-65	1033	194.4	7.1	700	29	AG049366	AG049366 Pan trogl
C 961	194.8	7.1	660	28	AQ394006	AQ394006 CITBI-EI-	1034	194.4	7.1	711	14	CA446907	CA446907 UI-H-ED0-
C 962	194.8	7.1	698	29	AG162589	Pan trogl	1035	194.4	7.1	714	29	AG008106	AG008106 Homo sapi
C 963	194.8	7.1	710	29	AG002493	AG002493 Homo sapi	1036	194.4	7.1	720	28	B88957	CIT-HSP-217
C 964	194.8	7.1	713	14	CB998598	CB998598 AGENCOURT	C1037	194.4	7.1	729	28	BZ600233	WHAB0041F
965	194.8	7.1	715	29	AG010149	Homo sapi	C1038	194.4	7.1	802	12	BG204346	RST23748
966	194.8	7.1	716	29	AG185086	Pan trogl	C1039	194.4	7.1	803	28	BZ610346	WHACN31TF
C 967	194.8	7.1	718	29	AG001503	AG001503 Homo sapi	C1040	194.4	7.1	814	28	AQ780979	HS 3138 B
C 968	194.8	7.1	759	9	AG1601085	DKF2p313K	1041	194.4	7.1	828	28	AQ749749	HS-5573-A
969	194.8	7.1	768	14	CD356527	CD356527 AGENCOURT	C1042	194.4	7.1	889	13	BQ709089	AGENCOURT
970	194.8	7.1	841	28	AQ744502	HS 5508 A	C1043	194.4	7.1	1855	11	BC022315	Homo sapi
971	194.8	7.1	855	14	CB994878	CB994878 AGENCOURT	1044	194.2	7.1	313	14	F09355	HSC30D112 n
972	194.8	7.1	935	14	CD244730	CD244730 AGENCOURT	C1045	194.2	7.1	340	13	BU960047	AGENCOURT
973	194.8	7.1	960	14	CD245816	CD245816 AGENCOURT	C1046	194.2	7.1	360	28	AQ081596	RPT111-54
974	194.6	7.1	340	13	BX482399	DKF2p686J	1047	194.2	7.1	360	28	AQ434271	AQ434271 HS 5101 A
975	194.6	7.1	359	28	AQ123162	AQ123162 HS 3095_B	1048	194.2	7.1	437	28	AQ085384	HS-2164_B
976	194.6	7.1	378	9	AA470524	nc71n09.B	1049	194.2	7.1	439	9	AL707781	DKF2p686J
977	194.6	7.1	407	9	AA772906	ag73304.B	1050	194.2	7.1	458	9	AI733856	z019c03.Y
978	194.6	7.1	409	9	AI537995	AI537995 tp33g12.x	C1051	194.2	7.1	460	10	AW864122	PWO-SN001
979	194.6	7.1	437	10	BF725688	bx18f09.x	C1052	194.2	7.1	470	28	B86288	B86288 RPT11-22J2
C 980	194.6	7.1	439	9	AL712324	DKF2p686F	C1053	194.2	7.1	545	12	BG110480	602278903
981	194.6	7.1	486	28	AQ021976	AQ021976 CIT-HSP-2	C1054	194.2	7.1	551	12	BM754642	K-ES70032
982	194.6	7.1	487	9	AI291439	qm73f01.x	C1055	194.2	7.1	567	28	AQ706970	HS 5551 B
C 983	194.6	7.1	490	28	AQ426532	CITBI-EI-	C1056	194.2	7.1	573	28	AQ452564	HS 5184 A
984	194.6	7.1	497	10	AW974932	EST387037	1057	194.2	7.1	588	28	AQ480748	RPT11-12
C 985	194.6	7.1	501	28	AQ130454	HS 3021 A	1058	194.2	7.1	600	28	AQ480700	RPT11-12
986	194.6	7.1	516	10	BE645220	7e6f01.x	C1059	194.2	7.1	628	28	B68463	CIT-HSP-205
987	194.6	7.1	533	13	BX495554	DKF2p779B	1060	194.2	7.1	631	28	AQ382985	RPT111-13
C 988	194.6	7.1	534	28	AQ358180	AQ358180 HS 5027 A	C1061	194.2	7.1	634	10	BF691892	602248479
C 989	194.6	7.1	542	9	AV700192	AV700192 K-EST0039	C1062	194.2	7.1	642	29	AG161088	Pan trogl
990	194.6	7.1	580	12	BM759505	K-EST0039	C1063	194.2	7.1	646	14	CK003734	AGENCOURT
C 991	194.6	7.1	582	28	AQ427274	CITBI-EI-	C1064	194.2	7.1	664	28	AQ581318	RPT11-14
C 992	194.6	7.1	583	28	AQ628050	CITBI-EI-	C1065	194.2	7.1	666	12	BG569393	602598726
C 993	194.6	7.1	619	28	AQ425911	CITBI-EI-	C1066	194.2	7.1	677	14	CD640596	AGENCOURT
C 994	194.6	7.1	627	14	CB269876	CB269876 1008783 H	1067	194.2	7.1	680	28	AQ547575	RPT11-14
995	194.6	7.1	653	28	AQ543318	AQ543318 RPT11-3	C1068	194.2	7.1	710	29	AG186254	Pan trogl
996	194.6	7.1	655	14	CA425288	UI-H-DFO-	C1069	194.2	7.1	723	12	BG402527	602465542
997	194.6	7.1	659	28	AQ392997	CITBI-EI-	C1070	194.2	7.1	725	28	AQ385345	RPT111-14
998	194.6	7.1	664	12	BG393617	BG393617 c159h10.x	C1071	194.2	7.1	728	28	AQ527901	RPT11-13
999	194.6	7.1	712	14	CF146365	UI-H-FT0-	1072	194.2	7.1	748	13	BG626943	UI-H-FT0-
1000	194.6	7.1	723	14	CA431902	CA431902 UI-H-FT0-	C1073	194.2	7.1	769	14	CB312078	AGENCOURT
1001	194.6	7.1	732	14	CA308765	CA308765 UI-H-FT1-	C1074	194.2	7.1	796	28	AQ490320	RPT11-12
1002	194.6	7.1	732	12	BQ019992	BQ019992 UI-H-ED0-	C1075	194.2	7.1	846	28	AQ748323	HS 5535 A
C1003	194.6	7.1	797	10	AW959865	EST371936	1076	194.2	7.1	881	9	AL571107	AL571107
C1004	194.6	7.1	836	10	AW959865	EST371936	1077	194.2	7.1	890	13	BUI78866	AGENCOURT
1005	194.6	7.1	836	28	BZ603670	WHACU35TR	1078	194.2	7.1	904	13	BUI68259	AGENCOURT
1006	194.6	7.1	859	12	BG114507	BG114507 602284837	C1079	194.2	7.1	922	13	BX371898	AG7371898
C1007	194.6	7.1	872	28	AQ744476	AQ744476 HS 5506 A	C1080	194.2	7.1	923	10	BE883754	601506149
C1008	194.6	7.1	986	12	BM919946	BM919946 AGENCOURT	C1081	194.2	7.1	924	13	BQ882030	AGENCOURT
1009	194.6	7.1	998	9	AL570044	AL570044	1082	194.2	7.1	1005	13	BQ068390	AGENCOURT
1010	194.6	7.1	1026	13	BQ057436	BQ057436 AGENCOURT	1083	194	7.1	327	9	AA483606	na75d02.8
1011	194.6	7.1	1201	13	BX396493	BX396493	1084	194	7.1	334	10	BF447461	nae37d05.
1012	194.6	7.1	2971	28	AF101960	AF101960	C1085	194	7.1	341	13	BQ435827	AGENCOURT
1013	194.4	7.1	372	28	BX3553	CIT-HSP-216	C1086	194	7.1	355	9	AL712365	DKF2p686J
C1014	194.4	7.1	386	9	AL079734	AL079734 DKF2p434H	1087	194	7.1	360	9	AA582374	na53f03.8
C1015	194.4	7.1	394	28	AZ516612	AZ516612 RPT11-12	C1088	194	7.1	379	9	AL601272	DKF2p313K
C1016	194.4	7.1	405	9	AI133083	AI133083 HA1672 Hu	C1089	194	7.1	379	14	CA949832	iq25h05.Y
C1017	194.4	7.1	406	9	AI134512	AI134512 ta95g08.x	C1090	194	7.1	397	28	AQ426735	CITBI-EI-
C1018	194.4	7.1	481	9	AL597510	DKF2p313F	1091	194	7.1	398	28	AQ427017	CITBI-EI-
1019	194.4	7.1	504	28	AQ827059	HS 5291 B	1092	194	7.1	424	28	AZ515688	U 430-16
1020	194.4	7.1	508	13	BX646464	DKF2p781C	1093	194	7.1	437	10	BF725884	bx21b11.x
C1021	194.4	7.1	524	10	BF669511	IL3-ET011	C1094	194	7.1	444	12	BQ017642	UI-H-DIO-
1022	194.4	7.1	533	13	BX481423	BX481423 DKF2p686A	1095	194	7.1	452	10	B828236	IL0-HN008
1023	194.4	7.1	542	10	AW613448	AW613448 hn73d02.x	C1096	194	7.1	480	28	AQ240592	CIT-HSP-2
1024	194.4	7.1	563	13	BG617594	BG617594 UI-H-DFO-	1097	194	7.1	483	13	BX472060	DKF2p686A
1025	194.4	7.1	569	10	BF838014	BF838014 QV3-HT101	C1098	194	7.1	488	12	BM836819	K-EST0112
C1026	194.4	7.1	569	28	B66557	CIT-HSP-201	1099	194	7.1	494	14	CA434946	UI-H-DHO-

1100	194	7.1	529	28	AQ386729	RPCI11-14	c1173	193.6	7.0	493	13	BU660198
1101	194	7.1	531	18	AQ391425	CITBI-E1-	1174	193.6	7.0	507	28	AQ219218
1102	194	7.1	538	13	EX111791	EX111791	c1175	193.6	7.0	520	28	AQ338465
1103	194	7.1	542	28	AQ381439	RPCI11-16	1176	193.6	7.0	546	9	AI693979
1104	194	7.1	552	28	AQ713182	HS 5404.A	c1177	193.6	7.0	546	10	AW963895
1105	194	7.1	553	28	AQ384740	RPCI11-14	c1178	193.6	7.0	558	28	AQ387790
1106	194	7.1	594	28	AQ042833	CIT-HSP-2	1179	193.6	7.0	570	13	EX491191
1107	194	7.1	600	28	AQ386202	RPCI11-14	c1180	193.6	7.0	581	9	AL712022
1108	194	7.1	606	10	AW245860	2822882.5	1181	193.6	7.0	597	9	AL707033
1109	194	7.1	656	14	CA420015	UI-H-FHO-	c1182	193.6	7.0	602	14	CD693086
1110	194	7.1	738	28	BZ611292	WHAB078TF	1183	193.6	7.0	631	13	BU674105
1111	194	7.1	761	12	BM933773	UI-H-DP1-	1184	193.6	7.0	654	13	EX486654
1112	194	7.1	779	28	AQ386732	RPCI-11-4	1185	193.6	7.0	663	14	CA309321
1113	194	7.1	897	13	BU552764	AGENCYCOURT	c1186	193.6	7.0	682	28	AQ384309
1114	194	7.1	917	13	BQ677871	RPCI11-14	1187	193.6	7.0	689	13	BU661880
1115	194	7.1	932	13	BQ880197	AGENCYCOURT	c1188	193.6	7.0	705	12	AQ892946
1116	194	7.1	976	11	BC050657	Homo sapi	c1189	193.6	7.0	705	12	BI255443
1117	194	7.1	1022	12	BM556059	AGENCYCOURT	1190	193.6	7.0	718	29	AG013538
1118	194	7.1	1201	13	EX331775	EX331775	c1191	193.6	7.0	750	28	BZ772257
1119	194	7.1	2669	11	BC035179	Homo sapi	1192	193.6	7.0	788	28	BZ603697
1120	194	7.1	4034	11	BC063541	Homo sapi	c1193	193.6	7.0	800	13	BU942620
1121	193.8	7.0	322	9	AL707005	DKEZP6861	1194	193.6	7.0	876	14	CD518646
1122	193.8	7.0	330	9	AA368155	ESF79360	c1195	193.6	7.0	876	28	AQ742930
1123	193.8	7.0	334	9	AI251034	qx71a11.x	1196	193.6	7.0	904	13	EX454551
1124	193.8	7.0	345	12	BG222875	naif60e11.	1197	193.6	7.0	926	13	EX431533
1125	193.8	7.0	376	10	BE857883	7d64h08.x	c1198	193.6	7.0	1888	11	BC037885
1126	193.8	7.0	405	9	AI217131	qf47c08.x	c1199	193.6	7.0	2048	11	BC017051
1127	193.8	7.0	408	12	BM706715	UI-E-CQO-	c1200	193.6	7.0	3780	11	BC033021
1128	193.8	7.0	413	10	BE064581	RC4-BT031	1201	193.4	7.0	295	12	EG940546
1129	193.8	7.0	434	28	BH152866	UP 484-23	c1202	193.4	7.0	308	13	BU953773
1130	193.8	7.0	437	9	AA644090	ag62b04.s	c1203	193.4	7.0	333	13	BU402552
1131	193.8	7.0	439	9	AA515728	ng70f04.s	c1204	193.4	7.0	362	10	BE139139
1132	193.8	7.0	454	9	AA935409	oh33h10.s	1205	193.4	7.0	370	9	AA219349
1133	193.8	7.0	463	28	AQ786116	HS 2210.B	c1206	193.4	7.0	384	28	AQ100508
1134	193.8	7.0	466	10	AW575000	UI-HF-BNO	1207	193.4	7.0	382	12	EG944147
1135	193.8	7.0	524	12	BM997047	UI-H-ED0-	1208	193.4	7.0	397	28	AQ604669
1136	193.8	7.0	530	28	AQ320953	RPCI11-10	c1209	193.4	7.0	411	28	AQ674453
1137	193.8	7.0	534	12	BM314515	IXF1609.Y	c1210	193.4	7.0	423	9	AI345334
1138	193.8	7.0	540	13	BX505093	DKEZP686G	1211	193.4	7.0	423	28	AQ406210
1139	193.8	7.0	586	10	AW811671	CM2-ST015	1212	193.4	7.0	425	9	AI792499
1140	193.8	7.0	607	14	CF136528	UI-HF-BNO	1213	193.4	7.0	425	9	AI792499
1141	193.8	7.0	610	28	AQ479821	RPCI-11-2	1214	193.4	7.0	442	28	AQ625470
1142	193.8	7.0	618	13	BU729200	UI-E-CL1-	c1215	193.4	7.0	450	28	AQ331706
1143	193.8	7.0	625	28	AQ333655	RPCI-11-3	1216	193.4	7.0	451	28	AQ268197
1144	193.8	7.0	626	12	BQ016577	UI-H-DIO-	1217	193.4	7.0	466	28	AQ321673
1145	193.8	7.0	652	28	AQ332981	RPCI-11-3	1218	193.4	7.0	467	13	BU735183
1146	193.8	7.0	669	12	BM997858	UI-H-DIO-	1219	193.4	7.0	468	28	AQ632508
1147	193.8	7.0	669	14	CB241724	UI-CF-FNO	1220	193.4	7.0	476	13	BQ778347
1148	193.8	7.0	671	12	BG533420	601860818	1221	193.4	7.0	479	10	AW151541
1149	193.8	7.0	680	29	AG084547	Pan trogl	c1222	193.4	7.0	497	14	CF140288
1150	193.8	7.0	693	29	AG142072	Pan trogl	c1223	193.4	7.0	497	14	CF140288
1151	193.8	7.0	756	14	CA748871	UI-H-DFO-	1224	193.4	7.0	533	12	EG944988
1152	193.8	7.0	779	28	AZ517787	RPCI-11-1	c1225	193.4	7.0	538	10	BE062159
1153	193.8	7.0	830	13	BU522107	AGENCYCOURT	1226	193.4	7.0	548	28	BM609883
1154	193.8	7.0	861	12	BG676827	602623425	c1227	193.4	7.0	555	28	AQ665447
1155	193.8	7.0	890	28	AQ091377	HS 5234.A	c1228	193.4	7.0	563	9	AW068596
1156	193.8	7.0	908	9	AL563606	AL563606	c1229	193.4	7.0	581	14	CD702960
1157	193.8	7.0	965	13	EX350197	EX350197	c1230	193.4	7.0	604	9	AV763457
1158	193.8	7.0	2099	11	BC034268	Homo sapi	c1231	193.4	7.0	605	28	BZ604986
1159	193.6	7.0	337	10	BF887154	PM4-TN017	c1232	193.4	7.0	637	29	AG160849
1160	193.6	7.0	395	13	BU784539	in16f10.x	c1233	193.4	7.0	646	13	EX43213
1161	193.6	7.0	400	9	AA506734	na46f11.s	c1234	193.4	7.0	653	10	BE178489
1162	193.6	7.0	406	28	AQ636240	RPCI-11-4	c1235	193.4	7.0	653	29	AG137048
1163	193.6	7.0	407	9	AA535216	nj75f05.s	c1236	193.4	7.0	666	28	AQ751474
1164	193.6	7.0	408	28	AQ091620	HS 3013.B	c1237	193.4	7.0	668	13	EX509747
1165	193.6	7.0	412	28	AQ679861	HS 5457.A	1238	193.4	7.0	713	14	CA308268
1166	193.6	7.0	421	9	AI792521	qi73c01.Y	c1239	193.4	7.0	714	29	AG165194
1167	193.6	7.0	437	13	EX482156	DKEZP686E	c1240	193.4	7.0	733	28	AQ531268
1168	193.6	7.0	446	10	BE140949	KR0-HT006	1241	193.4	7.0	766	12	BQ000069
1169	193.6	7.0	452	28	AQ222936	HS 2013.A	1242	193.4	7.0	771	13	BQ776208
1170	193.6	7.0	481	14	CB105188	K-EST0104	c1243	193.4	7.0	779	9	AL571642
1171	193.6	7.0	484	28	AQ020660	CIT-HSP-2	c1244	193.4	7.0	851	28	AQ896828
1172	193.6	7.0	486	9	AA579152	nf28a09.s	1245	193.4	7.0	900	13	BQ924076

C1246	193.4	7.0	963	28	BZ611284	BZ611284 WHACK887F	C1319	193	7.0	726	13	BX507038	BX507038
C1247	193.4	7.0	1201	13	BX461508	BX461508 BX461508	C1320	193	7.0	743	28	AQ391552	AQ391552 CITBI-E1-
C1248	193.2	7.0	312	9	A1798493	A1798493 t-36b03.x	C1321	193	7.0	772	28	BZ601785	BZ601785 WHABG65TR
C1249	193.2	7.0	314	9	A1537020	A1537020 t015a11.x	C1322	193	7.0	801	14	CB999384	CB999384 AGENCOURT
C1250	193.2	7.0	337	9	A1369580	A1369580 t6g9f04.x	C1323	193	7.0	832	13	BX102078	BX102078 EX102078
C1251	193.2	7.0	363	9	A1762454	A1762454 AV762454	C1324	193	7.0	844	13	BQ961856	BQ961856 AGENCOURT
C1252	193.2	7.0	368	10	BG059314	BG059314 nah48c05.	C1325	193	7.0	916	28	AQ749291	AQ749291 HS_5576_A
C1253	193.2	7.0	374	9	A1712126	A1712126 DKF2p686P	C1326	193	7.0	922	14	CD244984	CD244984 AGENCOURT
C1254	193.2	7.0	380	10	AW275971	AW275971 xq2e06.x	C1327	193	7.0	925	13	BQ433470	BQ433470 AGENCOURT
C1255	193.2	7.0	389	13	BX484792	BX484792 DKF2p686H	C1328	193	7.0	929	14	CD300528	CD300528 AGENCOURT
C1256	193.2	7.0	397	9	AA282951	AA282951 z15R02.r	C1329	193	7.0	971	12	BM908105	BM908105 AGENCOURT
C1257	193.2	7.0	433	28	AQ457083	AQ457083 HS_2241_A	C1330	193	7.0	990	12	BM803650	BM803650 AGENCOURT
C1258	193.2	7.0	436	14	CD171992	CD171992 AGENCOURT	C1331	193	7.0	1021	12	BG565916	BG565916 602583084
C1259	193.2	7.0	440	12	BI037013	BI037013 CW1-NT020	C1332	193	7.0	1860	11	BC035958	BC035958 Homo sapi
C1260	193.2	7.0	453	10	AW513071	AW513071 x040e04.x	C1333	193	7.0	4919	11	BC040674	BC040674 Homo sapi
C1261	193.2	7.0	464	28	AQ598684	AQ598684 HS_5336_B	C1334	192.8	7.0	338	10	AW467497	AW467497 he19d12.x
C1262	193.2	7.0	469	14	CB309560	CB309560 AGENCOURT	C1335	192.8	7.0	352	9	AA809089	AA809089 nv32e02.r
C1263	193.2	7.0	491	10	BG000961	BG000961 ILO-GN024	C1336	192.8	7.0	384	13	BU953876	BU953876 AGENCOURT
C1264	193.2	7.0	493	28	AQ351342	AQ351342 RPCI11-11	C1337	192.8	7.0	400	9	AV758870	AV758870 AV758870
C1265	193.2	7.0	495	10	AW969743	AW969743 EST381821	C1338	192.8	7.0	416	9	AA916430	AA916430 oh81f04.s
C1266	193.2	7.0	534	14	CF1311447	CF1311447 UI-HP-FQ0	C1339	192.8	7.0	419	10	BE328291	BE328291 ha93e10.x
C1267	193.2	7.0	547	9	AV758932	AV758932 AV758932	C1340	192.8	7.0	419	28	AQ631439	AQ631439 RPCI-11-4
C1268	193.2	7.0	580	10	AW965632	AW965632 EST377705	C1341	192.8	7.0	474	10	BE062484	BE062484 QV4-BT025
C1269	193.2	7.0	612	28	AQ074914	AQ074914 CIT-HSP-2	C1342	192.8	7.0	492	28	BH860924	BH860924 UP_315-5F
C1270	193.2	7.0	615	28	AQ484654	AQ484654 RPCI-11-2	C1343	192.8	7.0	505	28	AQ203695	AQ203695 HS_3095_B
C1271	193.2	7.0	633	28	AQ484503	AQ484503 RPCI-11-2	C1344	192.8	7.0	514	28	AQ052869	AQ052869 RPCI11-49
C1272	193.2	7.0	641	14	CF137095	CF137095 UI-HP-BNO	C1345	192.8	7.0	530	10	BF985049	BF985049 CM0-UM003
C1273	193.2	7.0	647	29	AG039308	AG039308 Pan trogl	C1346	192.8	7.0	530	10	AW798093	AW798093 CM0-UM004
C1274	193.2	7.0	663	29	AG156245	AG156245 Pan trogl	C1347	192.8	7.0	583	28	AQ344515	AQ344515 RPCI11-11
C1275	193.2	7.0	683	28	AQ529650	AQ529650 RPCI-11-3	C1348	192.8	7.0	587	12	BM781779	BM781779 K-BS70058
C1276	193.2	7.0	702	28	AQ540838	AQ540838 RPCI-11-3	C1349	192.8	7.0	646	12	BM666519	BM666519 UI-E-CQ1-
C1277	193.2	7.0	704	28	AQ318081	AQ318081 RPCI11-99	C1350	192.8	7.0	648	28	AQ547540	AQ547540 RPCI-11-4
C1278	193.2	7.0	714	28	AQ878839	AQ878839 HS_3144_B	C1351	192.8	7.0	655	29	AG106607	AG106607 Pan trogl
C1279	193.2	7.0	733	29	AG009187	AG009187 Homo sapi	C1352	192.8	7.0	655	29	AG119335	AG119335 Pan trogl
C1280	193.2	7.0	735	14	CD101903	CD101903 AGENCOURT	C1353	192.8	7.0	656	13	BUE28525	BUE28525 UI-H-FG0-
C1281	193.2	7.0	735	29	AG009188	AG009188 Homo sapi	C1354	192.8	7.0	676	29	AG065636	AG065636 Pan trogl
C1282	193.2	7.0	861	28	AQ0788037	AQ0788037 HS_3129_A	C1355	192.8	7.0	682	29	AG175743	AG175743 Pan trogl
C1283	193.2	7.0	886	10	BE973547	BE973547 601680959	C1356	192.8	7.0	684	29	AG009221	AG009221 Homo sapi
C1284	193.2	7.0	933	13	BX444018	BX444018 BX444018	C1357	192.8	7.0	698	29	AG085392	AG085392 Pan trogl
C1285	193	7.0	333	9	AA570740	AA570740 n121c07.s	C1358	192.8	7.0	705	29	AG173533	AG173533 Pan trogl
C1286	193	7.0	344	10	BE138387	BE138387 xr74c03.x	C1359	192.8	7.0	722	29	AG001502	AG001502 Homo sapi
C1287	193	7.0	355	9	A1469599	A1469599 tm14c09.x	C1360	192.8	7.0	773	28	BZ608277	BZ608277 WHACA26TR
C1288	193	7.0	396	10	AW900516	AW900516 CM0-NN100	C1361	192.8	7.0	802	13	CD101430	CD101430 BX101430
C1289	193	7.0	400	28	AQ152498	AQ152498 HS_3110_B	C1362	192.8	7.0	824	14	CD101954	CD101954 AGENCOURT
C1290	193	7.0	414	28	AQ115980	AQ115980 RPCI11-56	C1363	192.8	7.0	824	12	BG107580	BG107580 602277730
C1291	193	7.0	416	28	AW243831	AW243831 x057b12.x	C1364	192.8	7.0	866	28	AQ741588	AQ741588 HS_5567_B
C1292	193	7.0	416	28	AQ310777	AQ310777 CITBI-EI-	C1365	192.8	7.0	882	13	BQ721141	BQ721141 AGENCOURT
C1293	193	7.0	439	10	AW474822	AW474822 xy20g09.x	C1366	192.8	7.0	917	13	BQ723133	BQ723133 AGENCOURT
C1294	193	7.0	451	9	AV763026	AV763026 AV763026	C1367	192.8	7.0	935	13	BQ723133	BQ723133 AGENCOURT
C1295	193	7.0	451	9	AV763058	AV763058 AV763058	C1368	192.8	7.0	945	12	BG289466	BG289466 602384310
C1296	193	7.0	464	28	AQ110616	AQ110616 CIT-HSP-2	C1369	192.8	7.0	1181	12	BM467577	BM467577 AGENCOURT
C1297	193	7.0	490	13	BQ181610	BQ181610 UI-H-EUO-	C1370	192.8	7.0	1439	12	BM803618	BM803618 AGENCOURT
C1298	193	7.0	492	28	AQ554340	AQ554340 RPCI-11-4	C1371	192.8	7.0	1915	11	BC012949	BC012949 Homo sapi
C1299	193	7.0	503	12	BM993453	BM993453 UI-H-DTO-	C1372	192.6	7.0	303	9	AW073510	AW073510 x336g07.x
C1300	193	7.0	505	28	AQ212632	AQ212632 HS_3115_B	C1373	192.6	7.0	307	13	BUE55868	BUE55868 cl02e08.z
C1301	193	7.0	514	28	AQ207701	AQ207701 HS_3026_B	C1374	192.6	7.0	321	9	AA526724	AA526724 ni91d06.s
C1302	193	7.0	517	28	AQ264959	AQ264959 CITBI-EI-	C1375	192.6	7.0	328	9	AA569206	AA569206 nm30g02.s
C1303	193	7.0	544	9	AU144174	AU144174 AU144174	C1376	192.6	7.0	336	9	A1310670	A1310670 ta46g10.x
C1304	193	7.0	549	10	AW976024	AW976024 EST388133	C1377	192.6	7.0	342	9	AA599080	AA599080 aes1e07.s
C1305	193	7.0	549	28	BZ599437	BZ599437 WHAAV887F	C1378	192.6	7.0	358	9	AV764001	AV764001 AV764001
C1306	193	7.0	556	13	BU077042	BU077042 in20e10.x	C1379	192.6	7.0	360	9	UI278972	UI278972 qm17b05.x
C1307	193	7.0	561	28	AQ420332	AQ420332 RPCI-11-1	C1380	192.6	7.0	371	13	BU752091	BU752091 UI-1-BB0-
C1308	193	7.0	566	28	BZ72708	BZ72708 RPCI11-1081	C1381	192.6	7.0	409	9	AA594157	AA594157 nm31f05.s
C1309	193	7.0	568	10	AW971855	AW971855 EST383944	C1382	192.6	7.0	417	12	BQ008359	BQ008359 UI-H-EI0-
C1310	193	7.0	572	13	BU689987	BU689987 UI-CF-FNO	C1383	192.6	7.0	440	9	AA601278	AA601278 nm15b09.s
C1311	193	7.0	574	14	CB154584	CB154584 K-EST0212	C1384	192.6	7.0	444	28	AQ877567	AQ877567 HS_2146_B
C1312	193	7.0	593	12	BQ019757	BQ019757 UI-H-EDO-	C1385	192.6	7.0	446	9	A1192440	A1192440 qd03f12.x
C1313	193	7.0	602	13	BM602612	BM602612 AGENCOURT	C1386	192.6	7.0	452	12	BM845661	BM845661 K-EST0124
C1314	193	7.0	644	29	AG057657	AG057657 Pan trogl	C1387	192.6	7.0	456	28	AQ055979	AQ055979 CIT-HSP-2
C1315	193	7.0	668	10	BE742926	BE742926 601574905	C1388	192.6	7.0	465	9	A1821200	A1821200 aes3f03.y
C1316	193	7.0	703	28	AQ035234	AQ035234 CIT-HSP-2	C1389	192.6	7.0	467	9	AA583546	AA583546 ni43g01.s
C1317	193	7.0	724	28	AQ392119	AQ392119 CITBI-EI-	C1390	192.6	7.0	470	28	AQ226326	AQ226326 HS_2010_A
C1318	193	7.0	725	29	AG071685	AG071685 Pan trogl	C1391	192.6	7.0	474	28	AQ801656	AQ801656 HS_5395_A

1392	192.6	7.0	491	10	AW410354	FN05F06.y	1465	192.2	7.0	387	10	AW338506	xw71901.x
1393	192.6	7.0	501	9	AI792304	ah14e02.y	1466	192.2	7.0	419	10	BE301584	b075b08.x
1394	192.6	7.0	505	10	BE968477	601649538	1467	192.2	7.0	429	9	AA847395	oe18e10.s
1395	192.6	7.0	516	12	BM857804	i168g09.y	1468	192.2	7.0	430	28	AQ111323	CIT-HSP-2
1396	192.6	7.0	519	14	CA419936	UI-H-PHO-	1469	192.2	7.0	440	10	AW408643	UI-HF-BM0
1397	192.6	7.0	521	28	AQ191558	HS 3237.A	1470	192.2	7.0	447	13	EX505428	EX505428
1398	192.6	7.0	524	9	AI302156	qn58a05.x	1471	192.2	7.0	462	14	CD895926	EST16162
1399	192.6	7.0	526	9	AA420546	nc61902.s	1472	192.2	7.0	465	12	BM857630	i168g09.x
1400	192.6	7.0	564	9	AU279840	AU279840	1473	192.2	7.0	489	10	BF673854	602137512
1401	192.6	7.0	565	13	EX507539	DKFZp686H	1474	192.2	7.0	497	28	AQ081623	RPC111-55
1402	192.6	7.0	565	13	EX507590	DKFZp686N	1475	192.2	7.0	502	9	AI380617	t902b07.x
1403	192.6	7.0	578	28	AZ521547	RPC111-11	1476	192.2	7.0	523	12	BM742807	K-EST0015
1404	192.6	7.0	586	28	AQ381029	RPC111-16	1477	192.2	7.0	529	13	BU728230	UI-E-CQ0-
1405	192.6	7.0	589	10	BF853273	MR2-EN009	1478	192.2	7.0	532	9	AL036896	DKFZp564A
1406	192.6	7.0	597	13	BU561688	AGENCOURT	1479	192.2	7.0	550	13	EX646551	DKFZp781L
1407	192.6	7.0	628	9	AL712178	DKFZp686E	1480	192.2	7.0	557	12	BM917800	AGENCOURT
1408	192.6	7.0	657	12	BM788692	K-EST0067	1481	192.2	7.0	586	14	CB962426	AGENCOURT
1409	192.6	7.0	659	29	AG154298	Pan trogl	1482	192.2	7.0	619	28	AQ390108	CITBI-E1-
1410	192.6	7.0	670	29	AG073766	Pan trogl	1483	192.2	7.0	638	28	AQ390759	CITBI-E1-
1411	192.6	7.0	703	12	BG706072	602669027	1484	192.2	7.0	655	29	AG018932	Homo sapi
1412	192.6	7.0	720	9	AU140208	AU140208	1485	192.2	7.0	662	13	EX509771	DKFZp686H
1413	192.6	7.0	734	29	AG031294	Pan trogl	1486	192.2	7.0	666	28	AQ316957	CITBI-E1-
1414	192.6	7.0	740	12	BQ005932	UI-H-ED0-	1487	192.2	7.0	674	14	CF886861	UI-CF-DUI
1415	192.6	7.0	765	14	CD516602	AGENCOURT	1488	192.2	7.0	677	29	AG184741	Pan trogl
1416	192.6	7.0	770	28	BZ610494	WHACX71TF	1489	192.2	7.0	681	29	AG074454	Pan trogl
1417	192.6	7.0	783	14	CB958862	AGENCOURT	1490	192.2	7.0	686	14	CF887067	CF887067
1418	192.6	7.0	785	28	AQ747183	HS 5539.A	1491	192.2	7.0	689	28	AQ323033	RPC111-10
1419	192.6	7.0	847	28	AQ741268	HS 5534.A	1492	192.2	7.0	691	29	AG120455	Pan trogl
1420	192.6	7.0	859	12	BI253344	602973617	1493	192.2	7.0	699	14	CA437539	UI-H-DFO-
1421	192.6	7.0	884	12	EG251983	602364621	1494	192.2	7.0	702	14	CA428680	UI-H-DFO-
1422	192.6	7.0	934	13	BU171447	AGENCOURT	1495	192.2	7.0	703	28	AQ587837	CITBI-E1-
1423	192.6	7.0	1028	12	BM459373	AGENCOURT	1496	192.2	7.0	709	9	AL119156	AL119156
1424	192.4	7.0	348	9	AI250552	qx33e11.x	1497	192.2	7.0	712	28	AQ637221	RPC111-4
1425	192.4	7.0	368	28	AQ248395	HS 2054.B	1498	192.2	7.0	713	28	AQ546618	CITBI-E1-
1426	192.4	7.0	410	28	AQ042422	CIT-HSP-2	1499	192.2	7.0	719	28	AQ475181	CITBI-E1-
1427	192.4	7.0	416	12	EG474043	602516603	1500	192.2	7.0	732	29	AG183158	Pan trogl
1428	192.4	7.0	422	14	H73550	ys10h07.r1							
1429	192.4	7.0	426	28	AQ028477								
1430	192.4	7.0	443	9	AI468006	tj84f09.x							
1431	192.4	7.0	458	28	AQ002107	CIT-HSP-2							
1432	192.4	7.0	458	28	AQ383398	RPC111-15							
1433	192.4	7.0	510	12	EG478433	602523848							
1434	192.4	7.0	549	14	CB217352	NISC nb02							
1435	192.4	7.0	563	9	AL046519	DKFZp434E							
1436	192.4	7.0	569	28	AQ019375	CIT-HSP-2							
1437	192.4	7.0	578	10	BE252421	601108224							
1438	192.4	7.0	599	13	BU684313	UI-CF-ENO							
1439	192.4	7.0	610	12	EG250286	602362417							
1440	192.4	7.0	610	14	CD721793	AQ372070							
1441	192.4	7.0	612	28	AQ372070	RPC111-15							
1442	192.4	7.0	622	10	BF724838	bx09c08.x							
1443	192.4	7.0	638	28	AQ381200	RPC111-16							
1444	192.4	7.0	658	28	AZ518997	RPC111-2							
1445	192.4	7.0	658	28	AQ356783	CITBI-E1-							
1446	192.4	7.0	669	29	AG148600	Pan trogl							
1447	192.4	7.0	677	29	AG169901	Pan trogl							
1448	192.4	7.0	686	29	AG157776	Pan trogl							
1449	192.4	7.0	694	29	AG094111	Pan trogl							
1450	192.4	7.0	702	14	CA772249	io93904.y							
1451	192.4	7.0	705	29	AG185819	Pan trogl							
1452	192.4	7.0	714	29	AG014088	Homo sapi							
1453	192.4	7.0	714	29	AG014112	Homo sapi							
1454	192.4	7.0	724	29	AG014246	Homo sapi							
1455	192.4	7.0	731	29	AG175563	Pan trogl							
1456	192.4	7.0	742	28	AQ375695	RPC111-14							
1457	192.4	7.0	770	28	BZ611474	WHAAO27TR							
1458	192.4	7.0	797	12	AG208667	BST28299							
1459	192.4	7.0	877	28	AQ749458	HS 5574.A							
1460	192.4	7.0	989	12	BM561743	AGENCOURT							
1461	192.4	7.0	347	12	BI493542								
1462	192.2	7.0	350	13	BY337304	BY337304							
1463	192.2	7.0	367	9	AA534047	nj97a08.s							
1464	192.2	7.0	377	9	AA719073	zh33a05.s							

ALIGNMENTS

RESULT 1

CB997121	LOCUS	CB997121	830 bp	mRNA	linear	EST 01-MAY-2003
DEFINITION	AGENCOURT 13622230 NIH MGC 148 Homo sapiens cDNA clone					
LOCUS	IMAGE:30338074 5', mRNA sequence.					
ACCESSION	CB997121					
VERSION	CB997121.1					
KEYWORDS	EST.					
SOURCE	Homo sapiens (human)					
ORGANISM	Homo sapiens					
REFERENCE	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;					
AUTHORS	1. (bases 1 to 830)					
TITLE	NIH-MGC http://mgc.nci.nih.gov/.					
JOURNAL	National Institutes of Health, Mammalian Gene Collection (MGC)					
COMMENT	Unpublished (1999)					
	Contact: Robert Strausberg, Ph.D.					
	Email: cgapbs@mail.nih.gov					
	Tissue Procurement: Dr. Stefan Hanson					
	cDNA Library Preparation: Michael J. Brownstein (NHGRI) with help					
	and advice from Piero Carninci (RIKEN)					
	cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)					
	DNA Sequencing by: Agencourt Bioscience Corporation					
	Clone distribution: MGC clone distribution information can be					
	found through the I.M.A.G.E. Consortium/LLNL at:					
	http://image.llnl.gov					
	Plate: NDAM364 row: c column: 11					
	High quality sequence stop: 601.					
FEATURES	Location/Qualifiers					
source	1..830					
	/organism="Homo sapiens"					
	/mol_type="mRNA"					

Query Match	24.5%;	Score 674.8;	DB 14;	Length 830;
Best local Similarity	98.5%;	Pred. No. 6.2e-120;		
Matches 712;	Conservative 0;	Mismatches 18;	Indels 3;	Gaps 3;
Qy	1	CTCCACGGGTGTCAGCGCCCGAGAAATCGGGTCTCTGGTCTCTGCTATGCGGGTTCGCTGCTG	60	
Db	45	CTCCACGGGTGTCAGCGCCCGAGAAATCGGGTCTCTGGTCTCTGCTATGCGGGTTCGCTGCTG	104	
Qy	61	CTCCACGGTATGAAGCCCTGAGGGCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT	120	
Db	105	CTCCACGGTATGAAGCCCTGAGGGCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT	164	
Qy	121	GTGTCCTTCAGTGCACCTACAGGAGAGCTGAGGACCAACCCGGAAGTACTGCTGCAGG	180	
Db	165	GTGTCCTTCAGTGCACCTACAGGAGAGCTGAGGACCAACCCGGAAGTACTGCTGCAGG	224	
Qy	181	AAGGGTGGGATCCCTTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAAGAGGCGCAG	240	
Db	225	AAGGGTGGGATCCCTTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAAGAGGCGCAG	284	
Qy	241	GAGACAAATGAAGGCGAGGGGTGCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTTGTG	300	
Db	285	GAGACAAATGAAGGCGAGGGGTGCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTTGTG	344	
Qy	301	ACCTGTGGAAACCTCACCCCTGCAAGACGCTGGGGAGTACTGGTGTGGGTTCGAAAAACGG	360	
Db	345	ACCTGTGGAAACCTCACCCCTGCAAGACGCTGGGGAGTACTGGTGTGGGTTCGAAAAACGG	404	
Qy	361	GGCCCCGATGAGTCTTTTACTGATCTCTCTGTTCGCTCTTCAGAGACCTGCTGTCCTCCC	420	
Db	405	GGCCCCGATGAGTCTTTTACTGATCTCTCTGTTCGCTCTTCAGAGACCTGCTGTCCTCCC	464	
Qy	421	TCCCTTCTCCACCTTCCAGCCTCTGGCTACAAACAGCCTGCAGCCCAAGGCAAAAGCT	480	
Db	465	TCCCTTCTCCACCTTCCAGCCTCTGGCTACAAACAGCCTGCAGCCCAAGGCAAAAGCT	524	
Qy	481	CAGCAAAACCCAGCCCGCCAGGATTCATCTCTGGGCTCTACCCGGCAGCCACACAGCC	540	
Db	525	CAGCAAAACCCAGCCCGCCAGGATTCATCTCTGGGCTCTACCCGGCAGCCACACAGCC	584	
Qy	541	AAGCAGGGGGAAGACAGGGGCTGAGGCCCTCCATTCGACAGGGAATCCCAAGTACGGGCAC	600	
Db	585	AAGCAGGGGGAAGACAGGGGCTGAGGCCCTCCATTCGACAGGGAATCCCAAGTACGGGCAC	644	
Qy	601	GAAGAAGACTTCTAGTACACAGGAACCTCTCCTCACCCAGGAGCTCTCTCTCTGAGGG	660	
Db	645	GAAGAAGACTTCTAGTACACAGGAACCTCTCCTCACCCAGGAGCTCTCTCTCTGCAAGG	704	
Qy	661	AGCT - CCCGCCCCCATGACG - TGGACTCCACCTC - AGCAGAGGACACCCAGTCCAGCT	717	
Db	705	AGCTCCCGCCCCCCTGACGCTTGACTCCACTCAACCTCAACACAGGACACCGAGTCCAG	764	
Qy	718	CTC 720		
Db	765	CTC 767		

JOURNAL Unpublished (1999)

HOCACATCTACTAATTTCCTTCTTTCCATAATTAAG

2017

```

Db      538 TAAAGTAGCAAACTACTATTATTTTCTTTTCCATTATATGTTTAAAGACAGAA 597
Qy      2162 TCTCGTCTGCTGCCAGGCTGGAGTCAGTGGCAGCATCTGCAAACTCCGCTCTCTGGG 2221
Db      598 TCTCGTCTGCTGCCAGGCTGGAGTCAGTGGCAGCATCTGCAAACTCCGCTCTCTGGG 657
Qy      2222 TTAAGTAGTCTTCTGCTCAGCTCC 2249
Db      658 TTAAGTAGTCTTCTGCTCAGCTCC 685

RESULT 6
BX280256/c
LOCUS      BX280256 NIH_MGC 97 Homo sapiens cDNA clone IMAGE99811810744 ;
DEFINITION IMAGE:4827737, mRNA sequence.
ACCESSION BX280256
VERSION    BX280256.1 GI:28613722
KEYWORDS   EST.
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 493)
AUTHORS    Ebert,L., Heil,O., Hennig,S., Neubert,P., Partsch,E., Peters,M.,
            Radelof,U., Schneider,D. and Korn,B.
TITLE      Human Unigeneset - RZPD3
JOURNAL    Unpublished (2003)
COMMENT    Contact: Ina Rolfs
            RZPD Deutsches Ressourcenzentrum fuer Genomforschung GmbH
            Im Neuenheimer Feld 580, D-69120 Heidelberg, Germany
            RZPD; IMAGE99811810744.
            RZPDLIB; I.M.A.G.E. cDNA Clone Collection;
            Human Unigeneset - RZPD3 (RZPDLIB No.972)
            http://www.rzpd.de/CloneCards/cgi-
            bin/showlib.pl.cgi/responder?libNo=972 Contact: Ina Rolfs
            RZPD Deutsches Ressourcenzentrum fuer Genomforschung GmbH
            Heubnerweg 6, D-14059 Berlin, Germany
            Tel: +49 30 32639 101
            Fax: +49 30 32639 111
            www.rzpd.de
            This clone is available royalty-free from RZPD;
            contact RZPD (clone@rzpd.de) for further information. Seq primer:
            M13r, Primer sequence: TTTCACACAGCAACAGCTATGAC.

FEATURES             source
    Location/Qualifiers
        1..493
            /organism="Homo sapiens"
            /mol_type="mRNA"
            /db_xref="taxon:9606"
            /clone="IMAGE99811810744 ; IMAGE:4827737"
            /lab_hosts="DH10B"
            /clone_lib="NIH_MGC 97"
            /note="Organ: testis; Vector: pBluescriptR (modified
            pBluescript KS+); Site_1: BamHI; Site_2: SalI-XhoI
            (gtcgag); Oligo-dT primed using primer
            5'-TTTTTTTTTTTTTTVN-3', size-selected for average
            insert size 2.2 kb and normalized to ROT 5. This is a
            primary library enriched for full-length clones and
            constructed using the Cap-trapper method (Carninci, in
            preparation). Library constructed by M. Brownstein
            (NIMH/NHGRI, National Institutes of Health). Note: this is
            a NIH_MGC Library."

ORIGIN
Query Match      16.8%; Score 462.8; DB 13; Length 493;
Best Local Similarity 98.5%; Pred. No. 6.1e-79;
Matches 475; Conservative 0; Mismatches 6; Indels 1; Gaps 1;

Qy      2268 GGACAGCACCACACACCTGCTAAATTTTGTACTTTTAGTAGAGATGGGTTTCACCAT 2327
Db      493  GGACAGCAGCACCACACACCTGCTAAATTTTGTACTTTTAGTAGAGATGGGTTTCACCAT 435
Qy      2328 GTTGGCCAGGCTGGTCTTTGAACCTCCTGACCTCAATGAGCCTCCTGCTCAGTCTCCAA 2387

```

```

Db      434 GTTGNCCAGGCTGGTCTTTGAACCTCTGACCTCAATGAGCCTCTCTGCTTCAGTCTCCAA 375
Qy      2388 ATTGCGGGATTACAGGCATGAGCCACTGTGTCTGGCCCTATTATTTCTTTAAAAAGTGA 2447
Db      374  ATTGCGGGATTACAGGCATGAGCCACTGTGTCTGGCCCTATTATTTCTTTAAAAAGTGA 315
Qy      2448 TTAAGAGTTTTCAGTATGCAAACTTTGAAAGATGGAGAGAAAAAGAAAGAGAA 2507
Db      314  TTAAGAGTTTTCAGTATGCAAACTTTGAAAGATGGAGAGAAAAAGAAAGAGAA 255
Qy      2508 ABAATGTCACCCATAGTCTCCACAGAGACTATCATTTATTTCTGTTTCTGTTCTTCCTTC 2567
Db      254  ABAATGTCACCCATAGTCTCCACAGAGACTATCATTTATTTCTGTTTCTGTTCTTCCTTC 195
Qy      2568 CACTCTTTTCTTCTTTCACATAAATTTGCCGCTGTTCTTTTACAGAGCAATTTATCTGTAT 2627
Db      194  CACTCTTTTCTTCTTTCACATAAATTTGCCGCTGTTCTTTTACAGAGCAATTTATCTGTAT 135
Qy      2628 ATACAACCTTTGTATCTGCTGCTTTCCACCTTATGTTCCATCACTTTATTTCCAGCACTTC 2687
Db      134  ATACAACCTTTGTATCTGCTGCTTTTCCACCTTATGTTCCATCACTTTATTTCCAGCACTTC 75
Qy      2688 TCTGTGTTTTTACAGACCTTTTATAAATAAATGTTTCATCAGCTGCATATAAAAAA 2747
Db      74  TCTGTGTTTTTACAGACCTTTTATAAATAAATGTTTCATCAGCTGCATATAAAAAA 15
Qy      2748 AA 2749
Db      14  AA 13

RESULT 7
CB555136
LOCUS      CB555136
DEFINITION CB555136
ACCESSION CB555136
VERSION    CB555136.1 GI:31304331
KEYWORDS   EST.
SOURCE     Macaca mulatta (rhesus monkey)
ORGANISM   Macaca mulatta
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;
            Cercopithecoidea; Macaca.
REFERENCE  1 (bases 1 to 644)
AUTHORS    Katze,M.G., Bungarner,R., Korth,M., Feldman,R., Amjadi,M. and
            Holzman,T.
TITLE      Expressed sequence tags from Rhesus macaque spleen
JOURNAL    Unpublished (2002)
COMMENT    Contact: Holzman T
            Katze Lab
            University of Washington
            Box 358070, Seattle, WA 98195-8070, USA
            Tel: 206 732 6156
            Fax: 206 732 6055
            Email: ted@locke.ha.washington.edu
            Similar to Genbank entry BC025395 BC025395 Homo sapiens, similar to
            CWRP35 ANTIGEN PRECURSOR, clone MGC:26887 IMAGE:4827737, mRNA,
            complete cds. 3/2002
            Plate: WMSPP0041 row: F column: 05.
            Location/Qualifiers
                1..644
                    /organism="Macaca mulatta"
                    /mol_type="mRNA"
                    /db_xref="taxon:9544"
                    /sex="male"
                    /cell_type="monocytes"
                    /dev_stage="adult"
                    /clone_lib="WMSPP"
                    /note="Organ: spleen"

ORIGIN
Query Match      15.2%; Score 417.4; DB 14; Length 644;

```



```

VERSION      BX356362.1  GI:30368017
KEYWORDS     EST.
SOURCE       Homo sapiens (human)
ORGANISM     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
              Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE    1. (bases 1 to 1201)
AUTHORS      Li, W.B., Gruber, C., Jessee, J. and Polayes, D.
TITLE        Full-length cDNA libraries and normalization
JOURNAL      Unpublished (2001)
COMMENT      Contact: Genoscope
              Genoscope - Centre National de Sequencage
              BP 191 91006 EVRY cedex - France
              Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
              Library was constructed by Life Technologies, a division of
              Invitrogen. This sequence belongs to sequence cluster 8555.f For
              more information about this cluster, see
              http://www.genoscope.cns.fr/cgi-bin/cluster.cgi?seq=CS0D1011BC05QP1&cluster=8555.f. Contact :
              Feng Liang Email : fliang@lifetech.com URL :
              http://fulllength.invitrogen.com/ Invitrogen Corporation 1600
              Faraday Avenue Genoscope sequence ID : CS0D1011BC05QP1.

FEATURES     source
              Location/Qualifiers
              1..1201
                /organism="Homo sapiens"
                /mol_type="mRNA"
                /db_xref="taxon:9606"
                /clone="CS0D1011VE10"
                /tissue_type="PLACENTA COT 25-NORMALIZED"
                /notes="1st strand cDNA was primed with a NotI-oligo(dT)
                primer. Five prime end enriched, double-strand cDNA was
                digested with Not I and cloned into the Not I and EcoR V
                sites of the pCMVSPORT 6 vector. Library was normalized."

ORIGIN
Query Match      14.9%; Score 409; DB 13; Length 1201;
Best Local Similarity 97.6%; Pred. No. 1.le-68;
Matches 415; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 CTCCACGGTTCACGGCCAGAAATCGGCTCTGCTGCTATGGGGTTCGCTGCTG 60
DB 86 CTCCACGGTTCACGGCCAGAAATCGGCTCTGCTGCTATGGGGTTCGCTGCTG 145
QY 61 CTCCACGGTTCAGAGCCCTGGAGGGCCAGAGAAATCAGCGGTTTCGAGGGGACACT 120
DB 146 CTCCACGGTTCAGAGCCCTGGAGGGCCAGAGAAATCAGCGGTTTCGAGGGGACACT 205
QY 121 GTGTCCCTGCAGTGCACCTACAGGAAGAGCTGAGGGACCACCGGAAGTACTGTGTCAGG 180
DB 206 GTGTCCCTGCAGTGCACCTACAGGAAGAGCTGAGGGACCACCGGAAGTACTGTGTCAGG 265
QY 181 AAGGTGGGATCTCTTCTCTCGTGTCTGGCCACCATCTATGCAGAGAAAGAGGCCAG 240
DB 266 AAGGTGGGATCTCTTCTCTCGTGTCTGGCCACCATCTATGCAGAGAAAGAGGCCAG 325
QY 241 GAGCAATGAAGGCGAGGGTGTCCATCCGTGACAGCGCCAGAGGCTCTCGCTCATTTGTG 300
DB 326 GAGCAATGAAGGCGAGGGTGTCCATCCGTGACAGCGCCAGAGGCTCTCGCTCATTTGTG 385
QY 301 ACCCTGTGGAACCTCACCCCTGCAAGACGCTGGGAGTACTGGTGTGGGGTTCGAAAAACGG 360
DB 386 ACCCTGTGGAACCTCACCCCTGCAAGACGCTGGGAGTACTGGTGTGGGGTTCGAAAAACGG 445
QY 361 GGCCCCGATGAGCTTTTACTGATCTCTGTTCTCTTTTCCAGGACCCCTGCTCTCTCC 420
DB 446 GGCCCCGATGAGCTTTTACTGATCTCTGTTCTCTTTTCCAGGATATCTCTCTCC 505
QY 421 TCCCC 425
DB 506 TTCCC 510

```

```

RESULT 10
LOCUS      F22780
DEFINITION HSPD07683 HM3 Homo sapiens cDNA clone NOTAVAIL07683, mRNA sequence.
ACCESSION F22780
VERSION    F22780.1  GI:2061956
KEYWORDS   EST.
SOURCE     Homo sapiens (human)
ORGANISM   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
              Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 416)
AUTHORS    Lanfranchi, G., Muraro, T., Caldara, F., Pacchioni, B., Pallavicini, A.,
              Pandolfo, D., Toppo, S., Trevisan, S., Scarsio, S. and Valle, G.
TITLE      Identification of 4370 expressed sequence tags from a
              3'-end-specific cDNA library of human skeletal muscle by DNA
              sequencing and filter hybridization
JOURNAL    Genome Res. 6 (1), 35-42 (1996)
MEDLINE    96276048
PUBMED     8681137
COMMENT     Contact: Valle G.
              CRIPI Biotechnology Centre
              University of Padua
              Via Trieste 75, 35121 Padua, Italy
              ABI Chromatograms and other information are available on WWW at
              http://grup.bio.unipd.it
              POLYA=No.

FEATURES     source
              Location/Qualifiers
              1..416
                /organism="Homo sapiens"
                /mol_type="mRNA"
                /db_xref="taxon:9606"
                /clone="NOTAVAIL07683"
                /sex="female"
                /tissue_type="pectoral muscle (after mastectomy)"
                /clone_lib="HM3"
                /notes="Vector: pcDNAII (Invitrogen); Site 1: BstXI;
                Site 2: NotI; The library was constructed by G.
                Lanfranchi. This library is not subtracted nor normalized.
                The first strand cDNA was primed with a biotinylated
                oligo-dT-NotI primer
                (5'-biotin-AACCGGCTCGAGCGCGCTTTTCTTTT-3'). The
                ds cDNA was sonicated and size selected in the range
                350-550 bp. The 3' specific fragments were selected by
                streptavidin coated magnetic beads, ligated to
                non-palindromic BstXI adapters, NotI digested and
                directionally cloned into BstXI-NotI cut pcDNAII vector."

ORIGIN
Query Match      14.9%; Score 408.4; DB 14; Length 416;
Best Local Similarity 98.3%; Pred. No. 2.le-68;
Matches 409; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2315 GGGGTTTCCACATGTGGCCAGCGTGTGTGAACTCTGACCTCAATGAGCCTCTGC 2374
DB 1 GGGGTTTCCACATGTGGCCAGCGTGTGTGAACTCTGACCTCAATGAGCCTCTGC 60
QY 2375 TTCAGTCTCCAAATTGCGGGATTACAGGCATGAGCCACTGTGTCTGGCCCTATTTCCT 2434
DB 61 TTCAGTCTCCAAATTGCGGGATTACAGGCATGAGCCACTGTGTCTGGCCCTATTTCCT 120
QY 2435 TTTAAAGTGAATTAAGAGTTGTTTCAGTATGCAAAACTTTGGAAGATGGAGGAGAAAA 2494
DB 121 TTTAAAGTGAATTAAGAGTTGTTTCAGTATGCAAAACTTTGGAAGATGGAGGAGAAAA 180
QY 2495 GAAAAGAGAGAAAAATGTCAACCATAGTCTCACCAGAGACTATCATTTTGGTTTG 2554
DB 181 GAAAAGAGAGAAAAATGTCAACCATAGTCTCACCAGAGACTATCATTTTGGTTTG 240
QY 2555 TTGTACTTCTCCACTCTTTTCTTCTTTCACATAAATTTGCGGGTGTCTTTTACAGAGC 2614
DB 241 TTGTACTTCTCCACTCTTTTCTTCTTTCACATAAATTTGCGGGTGTCTTTTACAGAGC 300

```

```
QY 2615 AATTATCTTGATATACAACTTGTATCTCGCTTTTCCACCTTATGCTTCCATCACTTT 2674
Db |||||||
301 AATTATCTTGATATACAACTTGTATCTCGCTTTTCCACCTTATGCTTCCATCACTTT 360
QY 2675 ATTCCAGCACTTCTCTGTGTTTACAGACCTTTTATAAATAAAATGTTTCATCAGC 2730
Db |||||||
361 ATTCCAGCACTTCTCTGTGNTTTACAGACCTTTTATAAATAAAATGTTTCATCAGC 416

RESULT 11
CF994396 893 bp mRNA linear EST 25-NOV-2003
LOCUS AGENCOURT 15624269 NIH_MGC_147 Homo sapiens cDNA clone
DEFINITION IMAGE:30520582 5', mRNA sequence.
ACCESSION CF994396
VERSION EST.
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 893)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Daniela S. Gerhard, Ph.D.
Office of Cancer Genomics / NIH
National Cancer Institute / NIH
Bldg. 31 Rm10A07 Bethesda, MD 20892
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Dr. Stefan Hansson
CDNA Library Preparation: Michael J. Brownstein (NHGRI) with help
and advice from Piero Carninci (RIKEN)
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Plate: NDAM593 row: o column: 23
High quality sequence stop: 322.

FEATURES
source
1. .893
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:30520582"
/tissue_type="Human Placenta"
/lab_host="DH10B Tona"
/clone_lib="NIH_MGC_147"
/notes="Organ: Placenta; Vector: pBluescriptR; Site 1:
all-XhoI; Site 2: BamH; Oligo-dT primed using primer
5'-TTTTTTTTTTTTTTVN-3', size-selected for average
insert size 2.3 kb and normalized to ROT 5. This is a
primary library enriched for full-length clones and
constructed using the Cap-trapper method (Carninci, in
preparation). Library constructed by M. Brownstein
(NIMH/NHGRI, National Institutes of Health). Note: This is
a NIH_MGC library."

ORIGIN
Query Match 14.6%; Score 401.4; DB 14; Length 893;
Best Local Similarity 99.8%; Pred. No. 3.7e-67;
Matches 402; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CTCCAGGTGTCAGCGCCAGAAATCGGCTTCTGCTCTGCTATGCGGTTCGCTGCTG 60
Db |||||||
45 CTCCAGGTGTCAGCGCCAGAAATCGGCTTCTGCTCTGCTATGCGGTTCGCTGCTG 104
QY 61 CTCCAGGTGTCAGCGCCAGAAATCGGCTTCTGCTCTGCTATGCGGTTCGAGGGGACACT 120
Db |||||||
105 CTCCAGGTGTCAGCGCCAGAAATCGGCTTCTGCTCTGCTATGCGGTTCGAGGGGACACT 164
QY 121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGAGCACCGGAAGTACTGTGTCAGG 180
```

```
Db |||||||
165 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGAGCCACCGGAAGTACTGTGTCAGG 224
QY 181 AAGGTGGGATCTCTTCTCTCGTCTGCTGGACCATCTATGACAGAGAGAGCCAG 240
Db |||||||
225 AAGGTGGGATCTCTTCTCTCGTCTGCTGGACCATCTATGACAGAGAGAGCCAG 284
QY 241 GAGACAATGAAGGGCAGGGGTGTCATCCGTGACAGCGCCAGGAGCTCTCGCTCATTTGTG 300
Db |||||||
285 GAGACAATGAAGGGCAGGGGTGTCATCCGTGACAGCGCCAGGAGCTCTCGCTCATTTGTG 344
QY 301 ACCTCTGTGAACCTCACCTCTGCAAGACGCTGGGAGTACTGTGTGGGGTCGAAAAACGG 360
Db |||||||
345 ACCTCTGTGAACCTCACCTCTGCAAGACGCTGGGAGTACTGTGTGGGGTCGAAAAACGG 404
QY 361 GGCCCGGATGAGTCTTTACTGATCTCTCTGTTCTTTCCAG 403
Db |||||||
405 GGCCCGGATGAGTCTTTACTGATCTCTCTGTTCTTTCCAG 447

RESULT 12
CF994398 1195 bp mRNA linear EST 25-NOV-2003
LOCUS AGENCOURT 15621561 NIH_MGC_147 Homo sapiens cDNA clone
DEFINITION IMAGE:30520579 5', mRNA sequence.
ACCESSION CF994398
VERSION EST.
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 1195)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Daniela S. Gerhard, Ph.D.
Office of Cancer Genomics / NIH
National Cancer Institute / NIH
Bldg. 31 Rm10A07 Bethesda, MD 20892
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Dr. Stefan Hansson
CDNA Library Preparation: Michael J. Brownstein (NHGRI) with help
and advice from Piero Carninci (RIKEN)
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Plate: NDAM593 row: o column: 20
High quality sequence stop: 286.

FEATURES
source
1. .1195
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:30520579"
/tissue_type="Human Placenta"
/lab_host="DH10B Tona"
/clone_lib="NIH_MGC_147"
/notes="Organ: placenta; Vector: pBluescriptR; Site 1:
all-XhoI; Site 2: BamH; Oligo-dT primed using primer
5'-TTTTTTTTTTTTTTVN-3', size-selected for average
insert size 2.3 kb and normalized to ROT 5. This is a
primary library enriched for full-length clones and
constructed using the Cap-trapper method (Carninci, in
preparation). Library constructed by M. Brownstein
(NIMH/NHGRI, National Institutes of Health). Note: This is
a NIH_MGC library."

ORIGIN
Query Match 14.0%; Score 384.2; DB 14; Length 1195;
Best Local Similarity 99.2%; Pred. No. 7e-64;
```

Matches 386; Conservative 0; Mismatches 3; Indels 0; Gaps 0;	
Qy	1 CTCCACGGTGTCCAGCGCCAGAAATCGGGTTCTGGTCTCTGCTATGGGGTTCCTGCTG 60
Db	45 CTCCACGGTGTCCAGCGCCAGAAATCGGGTTCTGGTCTCTGCTATGGGGTTCCTGCTG 104
Qy	61 CTCCAGGTTATGAGCCCTGGAGGCGCCAGAGAAATCAGCGGTTCTGGAAGGGACACT 120
Db	105 CTCCAGGTTATGAGCCCTGGAGGCGCCAGAGAAATCAGCGGTTCTGGAAGGGACACT 164
Qy	121 GTGTCCTCGAGTGCACCTACAGGGAAGAGCTGAGGACACCGCAAGTACTGTCGAGG 180
Db	165 GTGTCCTCGAGTGCACCTACAGGGAAGAGCTGAGGACACCGCAAGTACTGTCGAGG 224
Qy	181 AAGGGTGGATCTCTTCTCTGCTGCTCTGGCACCATCTATGCAGAAAGAGGCCAG 240
Db	225 AAGGGTGGATCTCTTCTCTGCTGCTCTGGCACCATCTATGCAGAAAGAGGCCAG 284
Qy	241 GAGCAATGAGGCGAGGCTGTCATCCGTCAGCGCCAGCGAGCTCTGCTCATTTGTG 300
Db	285 GAGCAATGAGGCGAGGCTGTCATCCGTCAGCGCCAGCGAGCTCTGCTCATTTGTG 344
Qy	301 ACCTGTGGACCTCACCTGCGAGAGCTGGGAGTACTGCTGGGGTCGAAAACGG 360
Db	345 ACCTGTGGACCTCACCTGCGAGAGCTGGGAGTACTGCTGGGGTCGAAAACCG 404
Qy	361 GGCCCCGATGAGTCTTCTTACTGATCTCTCT 389
Db	405 GGCCCCGATGAGTCTTCTTACTGATCTCTCT 433
RESULT 13	
AK037204	
LOCUS	
DEFINITION Mus musculus 6 days neonate skin cDNA, RIKEN full-length enriched library, clone:A030009K22 product:hypothetical immunoglobulin structure containing protein, full insert sequence.	
ACCESSION AK037204.1 GI:26332043	
VERSION	
KEYWORDS HTC; CAP trapper.	
SOURCE	
ORGANISM Mus musculus (house mouse)	
REFERENCE	
AUTHORS Carninci, P. and Hayashizaki, Y.	
TITLE High-efficiency full-length cDNA cloning	
JOURNAL Meth. Enzymol. 303, 19-44 (1999)	
MEDLINE 99279253	
PUBMED 10349636	
REFERENCE	
AUTHORS Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.	
TITLE Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes	
JOURNAL Genome Res. 10 (10), 1617-1630 (2000)	
MEDLINE 20499374	
PUBMED 11042159	
REFERENCE	
AUTHORS Shibata, K., Itoh, M., Aizawa, K., Nagasaka, S., Sasaki, N., Carninci, P., Konno, H., Akiyama, J., Nishi, K., Kitsuina, T., Tashiro, H., Itoh, M., Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A., Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K., Fujiwaka, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Watahiki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsura, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.	
TITLE RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer	
JOURNAL Genome Res. 10 (11), 1757-1771 (2000)	
MEDLINE 20530913	
PUBMED 11076861	
REFERENCE	
AUTHORS The RIKEN Genome Exploration Research Group Phase II Team and the	

TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	JOURNAL	REFERENCE	AUTHORS
TITLE	J		

QY 1887 NCCATGCTTTTGGCCCTTTGGAAAAATGATGAAGAAACCTTGGCTCTCTCTCTCTCT 1945
 Db 541 -CCATGCTTTTGGCCCTTTGG-AACAATGATGAAGAAACCTTGGCTCTCTCTCTCTCT 597

RESULT 15
 AK052816
 LOCUS
 DEFINITION
 AK052816 1749 bp mRNA linear HTC 20-SEP-2003
 Mus musculus 10 days lactation, adult female mammary gland cDNA,
 RIKEN full-length enriched library, clone.D730030D15
 product: hypothetical immunoglobulin structure containing protein,
 full insert sequence.

ACCESSION
 AK052816
 VERSION
 AK052816.1 GI:26343002
 KEYWORDS
 HTC; CAP trapper.
 SOURCE
 Mus musculus (house mouse)
 ORGANISM
 Mus musculus

REFERENCE
 1 Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K.,
 Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
 Title Normalization and subtraction of cap-trapper-selected cDNAs to
 prepare full-length cDNA libraries for rapid discovery of new genes
 Genome Res. 10 (10), 1617-1630 (2000)
 JOURNAL MEDLINE 20499374
 PUBMED 11042159

REFERENCE
 2 Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K.,
 Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
 Title Normalization and subtraction of cap-trapper-selected cDNAs to
 prepare full-length cDNA libraries for rapid discovery of new genes
 Genome Res. 10 (10), 1617-1630 (2000)
 JOURNAL MEDLINE 20499374
 PUBMED 11042159

REFERENCE
 3 Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P.,
 Konno, H., Akiyama, J., Nishi, K., Kitsuina, T., Tashiro, H., Itoh, M.,
 Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A.,
 Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K.,
 Fujiwaka, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Watahiki, M.,
 Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsura, S., Kawai, J.,
 Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.
 Title RIKEN integrated sequence analysis (RISA) system--384-format
 sequencing pipeline with 384 multicapillary sequencer
 Genome Res. 10 (11), 1757-1771 (2000)
 JOURNAL MEDLINE 20530913
 PUBMED 11078661

REFERENCE
 4 The RIKEN Genome Exploration Research Group Phase II Team and the
 FANTOM Consortium.
 Title Functional annotation of a full-length mouse cDNA collection
 Nature 409, 685-690 (2001)

REFERENCE
 5 The FANTOM Consortium and the RIKEN Genome Exploration Research
 Group Phase I & II Team.
 Title Analysis of the mouse transcriptome based on functional annotation
 of 60,770 full-length cDNAs
 Nature 420, 563-573 (2002)

REFERENCE
 6 (bases 1 to 1749)
 Adachi, J., Aizawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, P.,
 Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, W.,
 Hayashida, K., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hirozane, T.,
 Hori, P., Imotani, K., Ishii, Y., Itoh, M., Kagawa, I., Kasukawa, T.,
 Katoh, H., Kawai, J., Kojima, Y., Kondo, S., Konno, H., Kouda, M.,
 Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Murata, M.,
 Nakamura, M., Nishi, K., Nomura, K., Numazaki, R., Ohno, M., Ohsato, N.,
 Okazaki, Y., Saito, R., Saitoh, H., Sakai, C., Sakai, K., Sakazume, N.,
 Sano, H., Sasaki, D., Shibata, K., Shinagawa, A., Shiraki, T.,
 Sogabe, Y., Tagami, M., Tagawa, A., Takahashi, F., Takaku-Akahira, S.,
 Takeda, Y., Tanaka, T., Tomaru, A., Toya, T., Yasunishi, A.,
 Muramatsu, M. and Hayashizaki, Y.
 Title Direct Submission
 Submitted (16-JUL-2001) Yoshihide Hayashizaki, The Institute of

Physical and Chemical Research (RIKEN), Laboratory for Genome
 Exploration Research Group, RIKEN Genomic Sciences Center (GSC),
 RIKEN Yokohama Institute, 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama,
 Kanagawa 230-0045, Japan (E-mail: genome-res@gscc.riken.go.jp,
 URL: http://genome.gsc.riken.go.jp/, Tel: 81-45-503-9222,
 Fax: 81-45-503-9218)

cDNA library was prepared and sequenced in Mouse Genome
 Encyclopedia Project of Genome Exploration Research Group in Riken
 Genomic Sciences Center and Genome Science Laboratory in RIKEN.
 Division of Experimental Animal Research in Riken contributed to
 prepare mouse tissues.
 Please visit our web site for further details.
 URL: http://genome.gsc.riken.go.jp/
 URL: http://fantom.gsc.riken.go.jp/.

COMMENT

FEATURES

source

1. .1749
 Location/Qualifiers

/organism="Mus musculus"

/mol_type="mRNA"

/strain="C57BL/6J"

/db_xref="FANTOM DB:D730030D15"

/db_xref="MGI:2422920"

/db_xref="taxon:10090"

/clone="D730030D15"

/sex="female"

/tissue_type="mammary gland"

/clone_lib="RIKEN full-length enriched mouse cDNA library"

/dev_stage="10 days lactation, adult"

28. .1275

/note="unnamed protein product; hypothetical

immunoglobulin structure containing protein (SCOP|48726,

evidence: SCOP)

putative"

/codon_start=1

/protein_id="BAC35158.1"

/db_xref="GI:26343003"

/translation="MRPLVLLMDCLVLPGEALKEKPEISGPEGDTVSLRCTYVEMK
 ERKWCROGGILVSRGDIIVANQDEVTGRMSIRDSFQELSMVIMRDLILKDSG
 KWCQDLGRDESEFVTLIVFKRDNAVPAGTCFSPSPFQPLTPRSLQPKAK
 AWQTLPEPTSLHPTVVTAKQGTGVRKAPFTEVAPAMSTGTSPVPGISPYAGSS
 TPTPARAGTSQVPPGISPYAGSPHTATSPHAGSRPVVWLPTTPQDSRAVASS
 VKSPSVSIPIWVRMMAVPLILLALLAAGLIAFGSHMLRWKRWKWLATETCKNEKVYLE
 TSLPGNWTETESTIDLATVPECLRNLSNVAFSPSTQNLSQSTEESEARSLLDDDK
 DWNAAPPLQMSAEELAFSFSFISV"

1726. .1731

/note="putative"

1749

/note="putative"

polyA_signal

polyA_site

ORIGIN

Query Match 13.2%; Score 361.6; DB 11; Length 1749;
 Best Local Similarity 65.7%; Pred. No. 1.5e-59;
 Matches 678; Conservative 0; Mismatches 219; Indels 135; Gaps 5;

QY 7 CGGTGTCCAGCGCCAGAAATGCGGCTTCGTCTGCTGATGGGTTCCTGCTCCCA 66
 Db 10 CAGTGTCCAGCACCCACCATGAGGCGCTCTGCTGATGGGACTCCCTGGTCTCCCA 69
 QY 67 GGTATGAGAGCCCTGAGGCGCCAGAGGAATCAGCGGGTTCGAAAGGGGACACGTGTCTCC 126
 Db 70 GGTATGAGAGCCCTGAGGCGCCAGAGGAATCAGCGGGTTCGAAAGGGGACACGTGTCTCC 129
 QY 127 CTGCAGTGCACCTTACAGGGAAGAGCTGAGGGGACACCGGAAGTACTGGTGCAGGAAGGTT 186
 Db 130 CTGCGGTGTACCTACGTGGAGAGAGTGAAGGAGACACAGGAAGTATTGTTGTCGCGCGG 189
 QY 187 GGAATCTCTTCTCTCTGCTGCTCTGGACCATCTATGACAGAAAGAGGAGGAGGAGACA 246
 Db 190 GGCATCTCTGCTGTCACGCTCGGCTGACATTTGTCTACCAATCAGGA---CCAGAGGTTG 246
 QY 247 ATGAAGGGGAGGCTGTCCTCCAGCGGCGGAGGAGGCTTCGCTCATTTGTGACCGCTG 306
 Db 247 ACTCGAGGGAGGAGTGTCCATCCGAGAGAGTCCCGAGAGCTTCGATGACCGTGTATG 306

